

## **Exhibit A**

# **Curriculum Vitae for Candidates to the AAP**

# **Dr. James B. Brewer**

# CURRICULUM VITAE

JAMES B. BREWER, M.D., PH.D.

## CONTACT INFORMATION

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**Address**      Alzheimer's Disease Cooperative Study, Imaging Core  
Comprehensive Alzheimer Program  
Human Memory Laboratory  
University of California, San Diego  
8950 Villa La Jolla Drive C212  
La Jolla Village Professional Center  
La Jolla, CA 92037

**Phone**      (858) 534-1237  
**Fax**      (858) 534-1240  
**Email**      [jbrewer@ucsd.edu](mailto:jbrewer@ucsd.edu)  
**Web**      <http://hml.ucsd.edu>

California Medical License CA A89348

NPI 1033144985

## POSITIONS AND TRAINING

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2014-Present	Professor, Neurologist, UCSD Radiology and Neurosciences
2016-Present	Interim Chair, UCSD Department of Neurosciences
2016-Present	Interim Director, Shiley-Marcos Alzheimer's Disease Research Center
2008-Present	Director, Alzheimer's Disease Cooperative Study Imaging Core
2008-Present	Director, Clinical Quantitative Imaging Program, UCSD Radiology
2008-Present	UCSD Center for Molecular Imaging/PET Director of Neuroscience
2006-Present	Clinical Core, UCSD Alzheimer's Disease Research Center
2004-Present	Principal Investigator- ADNI, ADNI-GO, ADNI-DoD, ADNI 2, Janssen 301,302, 351, ACCtion, SUMMIT
2004-Present	Director, Human Memory Laboratory
2010-2014	Associate Professor, Neurologist, UCSD Radiology and Neurosciences
2004-2010	Assistant Professor, Neurologist, UCSD Radiology and Neurosciences
2001-2004	Neurology Residency, Johns Hopkins

2000-2001	Medical Internship, Saint Vincents' Hospital, Manhattan
1993-2000	M.D./Ph.D., Medical Scientist Training Program, Stanford University
1992-1993	Fulbright Scholarship, Weizmann Institute of Science, Rehovot, Israel
1990	University of California-Berkeley, Integrative Biology Program
1988-1992	B.S., Missouri State University, Biology and Psychology, Chemistry

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#### NATIONAL BOARD CERTIFICATION

January 2006- American Board of Psychiatry and Neurology  
Diplomate in the Specialty of Neurology  
Certificate 53462

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#### HONORS AND AWARDS (SELECTED)

2013- present	Chair, NIA-Neurobiology of Aging
2013	Distinguished Investigator, Academy of Radiology Research
2009	UCSD School of Medicine Excellence in Teaching Award Nominee
2000	Convocation Address, Stanford School of Medicine
1993	Fulbright Scholarship – Neuroscience Research in Israel
1992	National Institutes of Health – Medical Scientist Training Program Grant
1992	Convocation Address, Missouri State University
1992	Outstanding Graduating Senior Award– MSU College of Science and Mathematics

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#### PRIOR RESEARCH EXPERIENCE

1994-2000	Stanford University Neurosciences Program Department of Psychology Advisor: John D.E. Gabrieli Ph.D. Thesis: <i>Functional imaging of the medial temporal lobe during memory formation and retrieval</i>
1992-1993	Weizmann Institute of Science Department of Structural Biology Advisor: Joel Sussman and Israel Silman Research Topic: <i>X-ray crystallography of acetylcholinesterase and its inhibitors</i>
1992	Mayo Clinic-Jacksonville, Florida

Department of Medicinal Chemistry  
 Advisor: Alan Kozikowski  
 Research Topic: *Computer modeling studies of the anticholinesterase activity of Huperzine A*

- 1991                   Mayo Clinic-Rochester, Minnesota  
 Department of Physiology and Biophysics  
 Scholl Foundation Fellowship in the Neurosciences  
 Advisor: Joseph Szurszewski  
 Research Topic: *Three-dimensional reconstruction and analysis of autonomic neurons using confocal microscopy and image reconstruction software*
- 1990                   Lawrence Berkeley Laboratories  
 Department of Energy, Science and Engineering Research Semester  
 Department of Research Medicine  
 Advisor: William Jagust and Thomas Budinger  
 Research Topic: *MRI, PET and SPECT imaging studies of Alzheimer's disease*
- 1990                   University of Southern California  
 National Science Foundation Research in Residence Program  
 Loker Hydrocarbon Research Institute  
 Advisor: George Olah, Nobel laureate  
 Research Topic: *Selective benzylic oxidation using ozone and pyridine*

#### RESEARCH INTERESTS

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- Goal**                   (1) to advance our understanding of the neural basis of memory formation and retrieval  
                           (2) to apply technical advances and discoveries in neuroimaging to the early diagnosis and treatment of memory disorders
- Techniques**           Structural: Quantitative structural MRI including volumetry, diffusion tensor imaging, and longitudinal quantification of subregional volumetric change.  
Functional: Positron Emission Tomography, Event-related functional MRI; electrophysiologic recordings from scalp, surface and depth electrodes to obtain event-related potentials (ERP) and gamma-band activity related to memory; combining functional imaging techniques to improve spatial and temporal resolution.

#### TEACHING EXPERIENCE

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- 2004-present           UCSD Neurology Clerkship  
 UCSD Neurology Residency  
 UCSD Neurosciences:  
 NEU 200C- Cognitive Neuroscience  
 SOMI 276C- Advanced fMRI Methods
- Advisor UCSD Neuroscience/Bioengineering Graduate program:  
 Ph.D. advisor, Prior Students:  
 Tyler Seibert, Ph.D., Medical Scientist Training Program UCSD

Jena Hales, Ph.D., Postdoctoral Fellow UCSD  
Sarah Israel-Gimbel, Ph.D., Postdoctoral Fellow Hebrew University  
Julia Hamstra, Ph.D., Postdoctoral Fellow UCSF

Postdoctoral Advisor-  
Sanja Kovacevic, Ph.D.  
Michael Pitts, Ph.D.

Current Students  
Emilie Schwager (Neurosciences),  
Elizabeth Murphy (MSTP Neurosciences)

Thesis committee member for Yael Shrager (Neurosciences), Jen Aron (MSTP Neurosciences), Peter Wais (Psychology), Jessica Rickert (Neurosciences), Kelly Landy (Neurosciences), Valerie Griffith (Bioengineering), Kate Murray (Neurosciences), Adnan Majid (MSTP Neurosciences)

2001-2004	Mentor and teacher for Johns Hopkins medical students Average teacher rating=3.89 on scale of 1 to 4
2001-present	Invited instructor, Falcon Reviews USMLE review course-Dallas, Texas Instruction of neuroscience/neurology to classes of U.S. and foreign medical students
1995-1998	Research mentor, Stanford University Undergraduate Research Program
1995	Instructor, <i>The biological basis of learning and memory</i> Summer course for Stanford University Department of Psychology
1994-1997	Principal Teaching Assistant, <i>Neurobiology 200</i> Stanford Medical School; Responsible for organizing teaching activities of other teaching assistants and lecturing on topics of neuroanatomy.

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#### PROFESSIONAL ASSOCIATIONS AND NATIONAL MEDICAL SOCIETY LEADERSHIP

American Academy of Neurology

Meeting Planning Committee and Abstract Review

Session Planning and Session Chair

American Neurological Association

Session Planning and Session Chair

Organizer of Mini Symposium, “Imaging to Explore Neural Network Structure and Function”

Society for Neuroscience

Abstract Review  
Memory Disorders Research Society  
Nomination Committee  
American Society for Neuroradiology  
ASNR Neurosciences Education Research Foundation Faculty  
National Institute on Aging Alzheimer's Disease Cooperative Study  
National Steering Committee  
Alzheimer's Disease Neuroimaging Initiative  
Steering Committee  
National Alzheimer's Association  
Medical Science Board  
HBO/Alzheimer's Project Scientific Panel  
National Alzheimer's Strategic Plan  
Alzheimer's Study Group  
National Critical Path/Coalition Against Major Diseases  
Advisory Board/Imaging Subteam  
Biomarkers Board  
Cognitive Neuroscience Society  
Organization for Human Brain Mapping

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**INTERNATIONAL JOURNAL EDITORIAL DUTIES**

March 2010-2012      International Journal of Alzheimer's Disease-  
Editorial Board and Section Editor

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**AD HOC REVIEWER**

*Trends in Neurosciences*  
*Journal of Neuroscience*  
*Journal of Child Psychology and Psychiatry*  
*Neurology*  
*NeuroImage*  
*Neuron*  
*PlosOne*  
*Hippocampus*  
*Brain*  
*Brain Research*  
*Proceedings of the National Academy of Sciences*  
*Cerebral Cortex*  
*European Journal of Neuroscience*  
*Behavioural Brain Research*  
*Neurobiology of Aging*  
*Human Brain Mapping*  
*Alzheimer's Disease and Associated Disorders*

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**GRANT REVIEW**

National Institute on Aging  
Standing Member NIA-N Study Section  
Neurobiology of Aging  
Israel Science Foundation  
Health Assistance Research Foundation  
American Foundation for Aging Research  
National Institute on Aging Recovery Act Study Section (ad hoc)

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**ADVISORY BOARDS (SELECTED)**

Lilly Biomarker Business Unit  
Bristol Myers Squibb Pharmaceuticals  
Avanir Pharmaceuticals  
Elan Pharmaceuticals Imaging Advisory Board

#### PUBLICATIONS

Desikan RS, Schork AJ, Wang Y, Witoelar A, Sharma M, McEvoy LK, Holland D, **Brewer JB**, Chen CH, Thompson WK, et al. (2015) Genetic overlap between Alzheimer's disease and Parkinson's disease at the MAPT locus. *Mol Psychiatry* Feb 17. Epub ahead of print

Reas ET, **Brewer JB** (2014) Mean signal and response time influences on multivoxel signals of contextual retrieval in the medial temporal lobe. *Brain Behav* Dec 24 Epub ahead of print

Brezova V, Moen KG, Skandsen T, Vik A, **Brewer JB**, Salvesen O, Håberg AK. (2014) Prospective longitudinal MRI study of brain volumes and diffusion changes during the first year after moderate to severe traumatic brain injury. *Neuroimage Clin.* Mar 28;5:128-40.

Gimbel SI, **Brewer JB**. (2014) Elaboration versus suppression of cued memories: influence of memory recall instruction and success on parietal lobe, default network, and hippocampal activity. *PLoS One*. Feb 19;9(2):e89037

Desikan RS, Thompson WK, Holland D, Hess CP, **Brewer JB**, Zetterberg H, Blennow K, Andreassen OA, McEvoy LK, Hyman BT, Dale AM; Alzheimer's Disease Neuroimaging Initiative Group. (2014) The role of clusterin in amyloid- $\beta$ -associated neurodegeneration. *JAMA Neurol*. Feb;71(2):180-7

Rafii MS, Taylor CS, Kim HT, Desikan RS, Fleisher AS, Katibian D, **Brewer JB**, Dale AM, Aisen PS. (2014) Neuropsychiatric symptoms and regional neocortical atrophy in mild cognitive impairment and Alzheimer's disease. *Am J Alzheimers Dis Other Demen*. Mar;29(2):159-65.

Desikan RS, Thompson WK, Holland D, Hess CP, **Brewer JB**, Zetterberg H, Blennow K, Andreassen OA, McEvoy LK, Hyman BT, Dale AM; Alzheimer's Disease Neuroimaging Initiative. (2013) Heart fatty acid binding protein and A $\beta$ -associated Alzheimer's neurodegeneration. *Mol Neurodegener*. Oct 2;8:39.

Reas ET, **Brewer JB**. (2013) Effortful retrieval reduces hippocampal activity and impairs incidental encoding. *Hippocampus*. May 23(5):367-79.

Reas ET, **Brewer JB** (2013) Imbalance of incidental encoding across tasks:

An explanation for non-memory-related hippocampal activations *Journal of Experimental Psychology*

Desikan RS, Rafii MS, **Brewer JB**, Hess CP (equal contribution) (2013) An expanded role for neuroimaging in the evaluation of memory impairment *Am J Neuroradiol*

**Brewer JB**, Sepulcre J and Johnson KA, Part VII: Dementias, Structural, Functional, and Molecular Neuroimaging Biomarkers for Alzheimer's Disease In Eric Nestler and David Holtzman (eds) *The Neurobiology of Mental Illness*; New York: Oxford University Press.

McEvoy, LK and **Brewer JB** (2012) Biomarkers for the clinical evaluation of cognitively impaired elderly: Amyloid is not enough. *Imaging Med* 4(3), 343-357.

Desikan RS, McEvoy LK, Holland D, Thompson WK, **Brewer JB**, Aisen PS, Andreassen OA, Hyman BT, Sperling RA, Dale AM; for the Alzheimer's Disease Neuroimaging Initiative (2012) *Am J Neuroradiol* Sept 13 Epub ahead of print.

Desikan RS, McEvoy LK, Thompson WK, Holland D, **Brewer JB**, Aisen PS, Sperling RA, Dale AM (2012) Amyloid Beta-associated clinical decline occurs only in the presence of elevated P-tau. *Arch Neurol* 69 (6), 709-713.

Hales JB and **Brewer JB** (2012) The path to memory is guided by strategy: distinct networks are engaged in associative encoding under visual and verbal strategy and influence memory performance in healthy and impaired individuals. *J Cogn Neuro* 24(6), 1398-1410.

Seibert TM, Murphy EA, Kaestner EA, **Brewer JB** (2012) Interregional correlations in Parkinson disease and Parkinson-related dementias with resting functional MR imaging. *Radiology* 263(1), 226-234.

Reas ET, Gimbel SI, Hales JB, **Brewer JB** (2012) Search-related suppression of hippocampus and default network activity during associative memory retrieval *Front Hum Neurosci* 5, 112. Epub 2011 Oct 30.

Murphy EA, Roddey JC, McEvoy LK, Holland D, Hagler DJ Jr, Dale AM, **Brewer JB** and the Alzheimer's Disease Neuroimaging Initiative (2012) CETP polymorphisms associate with brain structure, atrophy rate, and Alzheimer's disease risk in an APOE dependent manner. *Brain Imaging and Behavior* 6 (1), 16-26.

Seibert TM, Majid DS, Aron AR, Corey-Bloom J, **Brewer JB** (2011) Stability of resting fMRI interregional correlations analyzed in subject-native space: A one-year longitudinal study in healthy adults and premanifest Huntington's disease. *Neuroimage* (Epub ahead of print)

Heister D, **Brewer JB**, Magda S, Blennow K, McEvoy LK, for the

Alzheimer's Disease Neuroimaging Initiative (2011) Predicting MCI outcome with clinically available MRI and CSF biomarkers. *Neurology* 77(17):1619-28.

Holland D, Roddey JC, Blennow K, Aisen PS, **Brewer JB**, Hyman BT and Dale AM for the Alzheimer's Disease Neuroimaging Initiative (2011) Amyloid-beta associated volume loss occurs only in the presence of phosphor-tau. *Annals of Neurology* 70(4):657-61.

Seibert TM, **Brewer JB** (2011) Default network correlations analyzed on native surfaces. *J Neurosci Methods* 198 (2) 301-311.

McEvoy LK, Holland D, Hagler DJ Jr, Fennema-Notestine C, **Brewer JB**, Dale AM for the Alzheimer's Disease Neuroimaging Initiative (2011) Mild cognitive impairment: Baseline and longitudinal structural MR imaging measures improve predictive prognosis. *Radiology* 259(3):834-43.

Gimbel SI, **Brewer JB**. (2011) Reaction time, memory strength, and fMRI activity during memory retrieval: Hippocampus and default network are differentially responsive during recollection and familiarity judgments. *Cognitive Neuroscience* 2(1):19-23

Pitts MA, Martinez A, **Brewer JB**, Hillyard SA (2011) Early stages of figure-ground segregation during perception of the face-vace. *Journal of Cognitive Neuroscience*. 23(4):880-95

Rafii, MS, **Brewer JB** (2010) Functional brain imaging in the clinical assessment of consciousness. *PLoS Biology*.8(11):e10000548

McEvoy LK, **Brewer JB** (2010) Quantitative structural MRI for early detection of Alzheimer's disease. *Expert Review of Neurotherapeutics*. 10(11):1675-88.

Hales JB, **Brewer JB**. (2010) Activity in the hippocampus and neocortical working memory regions predicts successful associative memory for temporally discontiguous events. *Neuropsychologia* 48(11):3351-9.

Murphy EA, Holland D, Donohue M, Hagler DJ Jr., Dale AM, **Brewer JB**, and The Alzheimer's Disease Neuroimaging Initiative. (2010) Six-Month Neuroanatomical Change in MTL Structures is Associated with Subsequent Memory Decline in Elderly Controls *NeuroImage* 53(4):1310-7.

Karow DS, McEvoy LK, Hoh CK, Fennema-Notestine C, Hagler DJ, **Brewer JB**, Dale AM and the Alzheimer's Disease Neuroimaging Initiative. (2010) Relative capability of MR imaging and FDG PET to depict changes associated with prodromal and early Alzheimer disease *Radiology* 256(3):932-42.

McEvoy LK, Edland SD, Hagler DJ, Holland D, Roddey JC, Fennema-Notestine C, Salmon D, Koyama AK, Aisen PS, **Brewer JB**, Dale AM; for the Alzheimer's Disease Neuroimaging Initiative (2010) Neuroimaging

enrichment strategy for secondary prevention trials in Alzheimer's disease. *Alzheimer's Disease and Associated Dementias* 24(3):269-77.

Seibert TS, Hagler DJ, **Brewer JB** (2010) Early parietal response in episodic retrieval revealed with MEG *Human Brain Mapping* Epub ahead of print

Fjell AM, Walhovd KB, Fennema-Notestine C, McEvoy LK, Hagler DJ, Holland D, **Brewer JB**, Dale AM and the Alzheimer's Disease Neuroimaging Initiative (2010) CSF Biomarkers in prediction of cerebral and clinical change in mild cognitive impairment and Alzheimer's disease *Journal of Neuroscience* 30:2088-101.

Walhovd KB, Fjell AM, **Brewer JB**, McEvoy LK, Fennema-Notestine C, Hagler DJ Jr, Karow D, Dale AM (2010) Combining MRI, PET and CSF biomarkers in diagnosis and prognosis of Alzheimer's disease *American Journal of Neuroradiology* 31:347-54.

Fjell AM, Walhovd KB, Fennema-Notestine C, McEvoy LK, Hagler DJ, Holland D, Blennow K, **Brewer JB**, Dale AM and the Alzheimer's Disease Neuroimaging Initiative (2010) Brain atrophy in healthy aging is related to CSF levels of Abeta1-42. *Cerebral Cortex* 20(9):2069-79

Walhovd KB, Fjell AM, Dale AM, McEvoy LK, **Brewer J**, Karow DS, Salmon DP, Fennema-Notestine C; the Alzheimer's Disease Neuroimaging Initiative. (2010) Multi-modal imaging predicts memory performance in normal aging and cognitive decline. *Neurobiology of Aging*. 31(7):1107-21

Holland D, **Brewer JB**, Hagler DJ, Fennema-Notestine C, Dale AM, and the Alzheimer's Disease Neuroimaging Initiative (2009). Subregional neuroanatomical change as a biomarker for Alzheimer's disease progression. *Proceedings of the National Academy of Science*, Epub ahead of print

Fjell AM, Walhovd KB, Fennema-Notestine C, McEvoy LK, Hagler D, Holland D, **Brewer JB**, Dale AM and the Alzheimer's Disease Neuroimaging Initiative (2009) One year brain atrophy evident in healthy aging. *Journal of Neuroscience* 29:15223-31.

Fleisher AS, Donohue M, Chen K, **Brewer JB**, Aisen PS and the Alzheimer's Disease Neuroimaging Initiative (2009) Applications of neuroimaging to disease modification trials in Alzheimer's disease. *Behavioural Neurology* 21:129-36

**Brewer JB.** (2009) Fully-automated volumetric MRI with normative ranges: translation to clinical practice. *Behavioural Neurology* 2009:21 21-8.

McDonald CR, Mcevoy LK, Gharapetian L, Fennema-Notestine C, Hagler DJ Jr., Holland D, Koyama A, **Brewer JB**, Dale AM and the Alzheimer's Disease Neuroimaging Initiative (2009) Regional rates of neocortical atrophy from normal aging to early Alzheimer's disease. *Neurology*

73:457-465.

Israel SL, Seibert TM, Black ML, **Brewer JB** (2009). Going their separate ways: Dissociation of frontal and hippocampal activity during memory recollection and post-retrieval processing. *Journal of Cognitive Neuroscience* Mar 20, Epub ahead of print

Kovacevic S, Rafii MS, **Brewer JB** (2009) Fully-automated volumetry predicts decline in MMSE and CDR in patients with mild cognitive impairment *Alzheimer's Disease and Associated Dementias*, 23:139-145.

McEvoy LK, Fennema-Notestine C, Roddey JC, Hagler DJ, Holland DJ, Karow DS, Pung CJ, **Brewer JB**, Dale AM, and the Alzheimer's Disease Neuroimaging Initiative (2009). Quantitative structural neuroimaging detects Alzheimer's disease and predicts clinical and anatomical change in mild cognitive impairment: Initial results from the Alzheimer's Disease Neuroimaging Initiative. *Radiology* 251:195-205.

**Brewer JB**, Magda S, Airress C, Smith ME (2009) Fully-automated volumetry for assessment of focal atrophy in Alzheimer's disease. *American Journal of Neuroradiology* 3:578-80.

Hales JB, Israel SL, Swann NC, **Brewer JB**. (2009) Dissociation of frontal and medial temporal lobe activity in maintenance and binding of sequentially presented paired associates. *Journal of Cognitive Neuroscience*, 7, 1244-1254.

**Brewer JB**, Gabrieli JDE, Vaidya CJ, Preston A, Rosen A. Memory. In CG Goetz & EJ Pappert (Eds) Textbook of Clinical Neurology. 2007; (pp. 63-79). Philadelphia: W.B. Saunders Company.

Gold JJ, Smith CN, Bayley PJ, Shrager Y, **Brewer JB**, Stark CEL, Hopkins RO, Squire LR. (2006). Item memory, source memory, and the medial temporal lobe: Concordant findings from fMRI and memory-impaired patients. *Proceedings of the National Academy of Science*, 103, 9351-9356.

**Brewer JB**, Moghekar A. (2002). Imaging the medial temporal lobe: exploring new dimensions. *Trends in Cognitive Science*, 6, 217-223.

Golby AJ, Poldrack RA, **Brewer JB**, Spencer D, Desmond JE, Aron A P, Gabrieli JDE. (2001). Material-specific lateralization in the medial temporal lobe and prefrontal cortex during memory encoding. *Brain*, 124, 1841-1854.

Canli T, Zhao Z, **Brewer JB**, Gabrieli JD, Cahill L. (2000). Event-related activation in the human amygdala associates with later memory for individual emotional experience. *Journal of Neuroscience*. 20, RC99

Gabrieli JDE, **Brewer JB**, Vaidya CJ. (1999). Memory. In CG Goetz & EJ Pappert (Eds) Textbook of Clinical Neurology. (pp 56-69). Philadelphia: W.B. Saunders Company.

Fernandez G, **Brewer JB**, Zhao Z, Glover GH, Gabrieli JD. (1999). Level of sustained entorhinal activity at study correlates with subsequent cued-recall performance: a functional magnetic resonance imaging study with high acquisition rate. *Hippocampus*, 9, 35-44.

Gabrieli JDE, **Brewer JB**, Poldrack RA (1998). Images of medial temporal lobe function in human learning and memory. *Neurobiology of Learning and Memory*, 70, 275-283.

**Brewer JB**, Zhao Z, Desmond JE, Glover GH, Gabrieli JD (1998). Making Memories: brain activity that predicts how well visual experience will be remembered. *Science*, 281, 1185-1187.

**Brewer JB**, Gabrieli JD (1997). Focusing in on the medial temporal lobe. *Molecular Psychiatry*, 2, 427-431.

Gabrieli JDE, **Brewer JB**, Desmond JE, Glover GH (1997). Separate neural bases of two fundamental memory processes in the human medial temporal lobe. *Science*, 276, 264-266.

Kozikowski AP, Ma D, **Brewer J**, Sun S, Costa E, Romeo E, Guidotti A (1993). Chemistry, binding affinities, and behavioral properties of a new class of "antineophobic" mitochondrial DBI receptor complex (mDRC) ligands. *Journal of Medicinal Chemistry*, 36, 2908-2920.

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## CONVENTION PRESENTATIONS

### SELECTED PAPERS PRESENTED

Seibert TM, Hagler, DJ, **Brewer JB**. Early parietal response in episodic retrieval revealed with MEG. Presented at the 15<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, USA, June 18-23, 2009

**Brewer JB**, McEvoy LK, Holland D, Hagler DJ Jr., Fjell A, Walhovd K, Fennema-Notestine C, Anders Dale and the Alzheimer's Disease Neuroimaging Initiative. "MR Volumetry and Measures of Subregional Change: Preliminary Results from ADNI" Paper presented at the Annual Meeting of the American Academy of Neurology. Seattle, Washington, USA, April 25-30, 2009.

**Brewer JB**, Zhao Z, Glover GH, Gabrieli JDE. Parahippocampal responses to single events predict whether those events are remembered or forgotten. Paper presented at the 28<sup>th</sup> Annual Meeting of the Society for Neuroscience, Los Angeles, California, USA, November 7-12, 1998. Society for Neuroscience Abstracts, 1998, 24, no.1-2, p. 761.

**Brewer JB**, Desmond JE, Glover GH, Gabrieli JDE. Parahippocampal cortex involvement in the encoding of both visual and auditory stimuli: an fMRI study. Paper presented at the 27<sup>th</sup> Annual Meeting of the Society for Neuroscience, New Orleans, Louisiana, USA, October 25-30, 1997.

Society for Neuroscience Abstracts, 1997, 23, no. 1-2, p. 566.

**Brewer JB**, Desmond JE, Glover GH, Gabrieli JDE. Dissociation of medial temporal lobe structures involved in encoding and retrieval: an fMRI study. Paper presented at the 26<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington, D.C., USA, November 16-21, 1996. Society for Neuroscience Abstracts, 1996, 22, no. 1-3, p. 1450.

#### SELECTED POSTERS PRESENTED

Relkin N, Moore M, Tsakanikas D, **Brewer J**. Intravenous immunoglobulin treatment decreases rates of ventricular enlargement and cognitive decline in Alzheimer's disease. Presented at the 62<sup>nd</sup> Annual Meeting of the American Academy of Neurology, Toronto, Canada April 10-17, 2010

Hales JB, **Brewer JB**. Successful encoding of item-based and association-based information is dissociated along the posterior to anterior axis of the parahippocampal gyrus. Presented at the 38<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington, D.C., USA, November 15-19, 2008. Society for Neuroscience Abstracts

Israel SL, **Brewer JB**. Modulation of dorsolateral prefrontal and parahippocampal activity during memory suppression, retrieval, and retrieval with elaboration.. Presented at the 38<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington, D.C., USA, November 15-19, 2008. Society for Neuroscience Abstracts.

**Brewer JB**, Holland D, Fennema-Notestine, C, Dale, AM and the Alzheimer's Disease Neuroimaging Initiative. Brain structure change is associated with clinical decline of elderly controls: A longitudinal study using the ADNI dataset. International Conference on Alzheimer's Disease, Chicago, IL. July 27-31<sup>st</sup>. ICAD 2008 Abstracts

Israel SL, Black ML, Siebert TM, **Brewer JB**. BOLD signal decreases in the hippocampus during semantic processing of recollected items. Poster presented at the 37<sup>th</sup> Annual Meeting of the Society for Neuroscience, San Diego, CA, USA, November 3-7, 2007. Society for Neuroscience Abstracts

Davis JB, Swann NC, Israel SL, **Brewer JB**. Medial-temporal-lobe contribution to associative memory formation: examination of bold response during association of sequentially presented items. Poster presented at the 37<sup>th</sup> Annual Meeting of the Society for Neuroscience, San Diego, CA, USA, November 3-7, 2007. Society for Neuroscience Abstracts.

Seibert TM, Huang M, Discenza C, **Brewer JB**. Spatio-temporal dynamics of paired associate retrieval: an MEG study. Poster presented at the 36<sup>th</sup> Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, USA, October 14-18, 2006. Society for Neuroscience Abstracts.

Hamstra J, **Brewer JB**. Medial-temporal-lobe activity associated with subsequently confident and successful stem-cued recall for groups of

words. Poster presented at the 12<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Florence, Italy, June 11-15, 2006. *NeuroImage* Special Issue 12<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, p. S184

Golby AJ, Poldrack RA, Illes J, **Brewer JB**, Shuer, LM, Chen DR, Desmond JE, Gabrieli JDE. Novelty-associated mesial temporal lobe activation during memory encoding in patients with mesial temporal lobe epilepsy. Poster presented at the 30<sup>th</sup> Annual Meeting of the Society for Neuroscience, New Orleans, Louisiana, USA, November 4-9, 2000. Society for Neuroscience Abstracts, 26, no. 1, p. 463.

Golby AJ, Poldrack RA, **Brewer JB**, Spencer D, Gabrieli JDE. Material-specific lateralization of memory encoding processes in the medial temporal lobe. Poster presented at the 29<sup>th</sup> Annual Meeting of the Society for Neuroscience, Miami, Florida, USA, October 1999. Society for Neuroscience Abstracts, 25, no. 1, p. 646.

**Brewer JB**, Zhao Z, Desmond JE, Fine EM, Gabrieli JDE. Human perirhinal cortex participates in associative encoding. Poster presented at the 29<sup>th</sup> Annual Meeting of the Society for Neuroscience, Miami, Florida, USA, October 1999. Society for Neuroscience Abstracts, 25, no. 1, p. 647.

**Brewer JB**, Zhao Z, Marling TS, Desmond JE, Glover GH, Gabrieli JDE. Event-related fMRI of medial temporal lobe involvement in declarative memory formation. Poster presented at the 5<sup>th</sup> Annual Meeting of the Society for Cognitive Neuroscience, San Francisco, California, USA, April 5-7, 1998. Cognitive Neuroscience Society 1998 Annual Meeting Abstract Program, p. 121.

**Brewer JB**, Zhao Z, Marling TS, Desmond JE, Glover GH, Gabrieli JDE. Averaged single trial fMRI of medial temporal lobe involvement in declarative memory formation. Poster presented at the 6<sup>th</sup> Conference on the Neurobiology of Learning and Memory, Irvine, California, USA, October 21-24, 1997.

Miller S, **Brewer J**, Tarara J, Schmalz P, Szurszewski JH. 3-D reconstruction of abdominal prevertebral ganglion neurons. Poster presented at the Digestive Disease Week and the 93<sup>rd</sup> Annual Meeting of the American Gastroenterological Association, San Francisco, California, USA, May 9-15, 1992, 102, no. 4 part 2, p. A486.

Miller S, Tarara J, **Brewer J**, Ma R, Schmalz P, Szurszewski JH. 3-D imaging of lucifer yellow filled sympathetic and parasympathetic neurons. Poster presented at the 1992 Meeting of the Federation of American Societies for Experimental Biology (FASEB), Anaheim, California, USA, April 5-9, 1992. FASEB Journal, 1992, 6, no. 4, p. A956.

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#### INVITED TALKS (SELECTED)

Evidence Based Medicine Debates, Powered4Significance Panel on the use

of Imaging Biomarkers in the evaluation of Alzheimer's Disease. 2012

Invited Speaker Series, University of Wisconsin ADRC 2011

Grand Rounds UCSF Memory and Aging Program 2011

American Society for Neuroradiology, Neuroscience Education Research Foundation Lecture and Session Moderator, "Clinical and Structural Evaluation of the Memory-Impaired Patient" Vancouver, BC, May 17, 2009

American Academy of Neurology- Society for Behavioral and Cognitive Neurology Dinner Lecture: "Toward an MR diagnosis of Alzheimer's disease: Quantitative Neuroimaging" Seattle, April 29, 2009

Japan Epilepsy Society Meeting Invited Lecture," Memory and Epilepsy" Tokyo, Japan, October 2008

Japan Epilepsy Society Meeting Invited Lecture," Diffusion Tensor Imaging" Tokyo, Japan, October 2008

Alzheimer's Disease Cooperative Study Steering Committee Lecture: "Sharing imaging and clinical data from ADCS clinical trials" Salt Lake City, April 2008

UCSD Connect Presentation, "MRI Assessment of Subregional Change in the Brain" San Diego, August 2008

Spring Brain Conference Address, "Quantitative Neuroimaging: Toward an MR Diagnosis of Alzheimer's Disease" Palm Springs, March 16<sup>th</sup>, 2009

Ruben H. Fleet Science Center, Featured Speaker, "Aging for All Ages" San Diego, July 2006

Merck Neuroscience Series, "Functional Imaging of the Medial temporal Lobe" October 4<sup>th</sup>, 2004

University of California, Irvine, Grand Rounds Address, "Functional Imaging of the Medial Temporal Lobe" January 14<sup>th</sup>, 2004

New York Medical College, Grand Rounds Address, "Advances in Functional Brain Imaging" June 13<sup>th</sup>, 2000.

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#### MEDIA COVERAGE

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Work featured in Scientific American, Psychology Today, Discovery Channel News, Discover Magazine, Los Angeles Times, and New York Times. Interviews given for BBC, CNN, CBS Evening News, Lancet Journal and National Public Radio Science Friday.

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#### COMMUNITY, ADMINISTRATIVE, AND ORGANIZATIONAL ACTIVITIES

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2008-present                   Executive Steering Committee- UCSD ADRC  
 2007-present                   Executive Steering Committee Keck Center for Functional MRI  
 2006-present                   Co-Director UCSD Radiology at La Jolla Research Program  
 2004-present                   Co-Director Neurology Residents' Clinic  
 2003-2004                   Johns Hopkins Inpatient Neurosciences Work Group  
 2002-2004                   Computer and networking resource for Johns Hopkins residency program:  
 1996                           Founding member of the Stanford Papua New Guinea Project:  
 1995                           SMILE project: Organized and taught classes to Cal. high school students  
                                  allowing hands-on experience with neuroanatomy and neuroscience.

#### GRANTS AWARDED

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Functional Imaging of the Medial Temporal Lobe	Fidelity Foundation	\$90,000	10/2004-10/2005	PI
MTL Structure and Function in MCI and AD	Johns Hopkins Department of Medicine	\$325,000	7/2004-6/2006	PI
MRI Studies of MTL Structure and Function in MCI and AD	National Institutes of Neurological Diseases and Stroke	\$879,934	12/2004-11/2009	PI
High-Resolution MRI of Medial Temporal Lobe Structure and Function	General Electric Medical Foundation	\$265,682	4/2007-4/2010	PI
The Alzheimer's Disease Neuroimaging Initiative	National Institutes of Health	\$317,846	7/2004-8/2010	Site PI
A phase III study of the effectiveness of Bapineuzumab for the treatment of Alzheimer's disease	Elan Pharmaceutic.	\$593,460	2/2009-2/2012	Site PI
The Alzheimer's Disease Cooperative Study	National Institute on Aging	\$400,000	4/2009-4/2017	Core Leader

Clinical Studies of NSAIDs as Gamma Secretase Modulators in AD Project 3 MRI core	National Institute on Aging	\$60,000	6/2009-6/2014	Project 3 MRI Core Leader PI- Eddie Koo
Differentiating dementia with Lewy bodies from Alzheimer's disease using quantitative imaging	National Institute on Aging	\$663,642	6/2009-6/2014	PI (Project 1)
Multimodal MRI Studies of Brain Structure and Function in PDD and AD	National Institutes of Neurological Diseases and Stroke	\$880,560	11/2009-11/2015	PI
Sharing ADCS Imaging and Clinical Data through BIRN	National Institute on Aging	\$1,000,000	8/2011-8/2015	PI

Core leader on 5 additional NIH and industry grants funded through the next 3-5 years.

# **Dr. David S. Geldmacher**

CURRICULUM VITAE  
**DAVID S. GELDMACHER, MD, FACP**

**Date:** October 31, 2016

**PERSONAL INFORMATION**

Name: David Stephen Geldmacher  
 Citizenship: US  
 Foreign Language(s): none

**RANK/TITLES**

Patsy and Charles Collat Endowed Professor in Neuroscience  
 Professor of Neurology  
 Professor of Neurobiology  
 Director, Division of Memory Disorders and Behavioral Neurology  
 Senior Scientist appointments:  
     Alzheimer's Disease Center  
     Center for Aging  
     Center for Neurodegeneration and Experimental Therapeutics  
     McKnight Brain Research Institute  
     Vision Science Research Center

Rank: Professor (with tenure)  
 Primary Department: Neurology  
 Professional Address:

University of Alabama at Birmingham  
 1720 7th Avenue South, Sparks Center 620A,  
 Birmingham, AL 35294-0017  
 Phone 205-996-3679  
 Fax 205-975-7365.

**HOSPITAL AND OTHER (NON ACADEMIC) APPOINTMENTS:**

2012-present Medical Director (Neurology) -UAB Hospital  
 2011-present Medical Staff (Admitting and Consulting) - UAB Medical Center

**PROFESSIONAL CONSULTANTSHIP:**

2007-2011 *Ad hoc* Consultant, Peripheral & Central Nervous System Drugs Advisory Committee, US Food and Drug Administration,

**EDUCATION:**

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
09/1982-	M.D.	State University of New York:
05/1986	(with Certificate in Academic Research)	Health Science Center at Syracuse, Syracuse, New York

09/1978- BA University of Rochester  
 05/1982 (*magna cum laude*) Rochester, New York

**MILITARY SERVICE:** None

**LICENSURE:** Alabama, license# MD.32204  
 NPI: 1174692701  
 UPIN: E86577  
 DEA registration (details upon request)  
 Alabama Controlled Substance Certificate (details upon request)  
 Virginia, # 0101232688  
 Ohio # 35-05-8049 (inactive)  
 New Jersey (inactive)

**BOARD CERTIFICATION:**

American Board of Psychiatry and Neurology,  
 Certificate number 36574, November 1992 (lifetime certification)

Diplomate, National Board of Medical Examiners  
 Diploma number 330492, June 1987

**POSTDOCTORAL TRAINING:**

<u>Year</u>	<u>Training</u>	<u>Institution</u>
07/1986-	PGY-1 Internal Medicine	Mt. Sinai Medical Center
06/1987		Cleveland, Ohio
07/1987-	Residency-Neurology	Case Western Reserve University
06/1990		Cleveland, Ohio
07/1990-	Postdoctoral Fellowship	University of Florida
06/1991	Behavioral Neurology	Gainesville, Florida

**ACADEMIC APPOINTMENTS: (In reverse chronological order)**

<u>Year</u>	<u>Rank/Title</u>	<u>Institution</u>
4/2014- present	Patsy and Charles Collat Endowed Professor in Neuroscience	University of Alabama at Birmingham
3/2011- present	Professor of Neurology (tenured) Professor of Neurobiology	"
3/2011 -	Patsy and Charles Collat Endowed	"

3/2014	Scholar in Neuroscience	
11/2006- 2/2011	Harrison Distinguished Teaching Associate Professor of Neurology (without term)	University of Virginia School of Medicine
7/ 2002- 10/2006	Associate Professor of Neurology (without term)	"
7/2001- 6/2002	Associate Professor of Neurology	Case Western Reserve University
01/1993- 06/2001	Assistant Professor of Neurology	"
07/1991- 12/1992	Assistant Professor of Neurology	Robert Wood Johnson School of Medicine, University of Medicine and Dentistry of New Jersey

**AWARDS/HONORS:****Honors**

2015	Alpha Omega Alpha Medical Honors Society, Inductee
2014	Who's Who in the World Selection
2014-current	America's Top Doctors Selection, Castle-Connolly, Inc.
2013	Appointment to Fellow, American Neurological Association
2011-current	Best Doctors listing, <i>Birmingham</i> magazine
2008	Election to Fellow, American College of Physicians
2006	Election to membership, American Neurological Association
2006	Leading Health Professionals of the World, Selection
2005	Appointment to Academy of Distinguished Educators, University of Virginia School of Medicine
2002-current	The Best Doctors in America Selection
1998	The Best Doctors in America Selection, Woodward/White, Inc.
1998	Top Doctors Listing, <i>Cleveland Magazine</i>
1982	Phi Beta Kappa, Inductee
1978-82	National Merit Scholar
1978-82	New York State Regents' Scholar
1978	Valedictorian, Southside HS, Elmira, NY

**Awards**

2012	Residency Teaching Award Department of Neurology University of Alabama-Birmingham
2003	Residency Teaching Award

	Department of Neurology University of Virginia
2001	Award for Achievement: Science and Technology Division Northern Ohio Live Magazine Annual Awards
1995	Monitors' Choice Award – Best Overall Clinical Trials Site (Trial E2020-A-01-301), Eisai America, Inc.
1985	Merck Medical Student Achievement Award SUNY-HSC, Syracuse

### **MEMBERSHIPS IN PROFESSIONAL SOCIETIES:**

American Academy of Neurology (1988-current)  
Sections: Behavioral Neurology, Geriatric Neurology, Neurorehabilitation  
American College of Physicians (2008-current)  
American Neurological Association (2006-current)  
Medical Association of the State of Alabama (2013-current)  
American Society of Neurorehabilitation (1992-2006)  
Association of University Professors of Neurology (2006-2010)  
Consortium of Neurology Clerkship Directors (2005-2010)  
Virginia Neurological Society (2003-2010)

### **COUNCILS AND COMMITTEES**

#### **Scientific Grant Reviewer**

2012	Special Emphasis Panel, NIA 2012 ZAG1 ZIJ-7 ADCS (Alzheimer's Disease Cooperative Study-primary reviewer Project 3)
2010	Special Emphasis Panel, NIA 2010/05 ZAG1-ZIJ-5 (M2) ADNI2 (Alzheimer's Disease Neuroimaging Initiative-primary reviewer for two cores)
2006	NIH-Rapid Access to Interventional Drugs (RAID) Program Pilot Review Panel National Institutes of Health, Bethesda MD
2005	Special Emphasis Panel, NINDS (ZNS-1 SRB-P Executive Function)National Institutes of Health, Bethesda MD
2004	Scientific reviewer, Pilot Grants Program University of Virginia Institute on Aging
2003	Special Emphasis Panel, Brain Disorders and Clinical Neuroscience (ZRG-1 DBD 10B Behavioral Neurosciences SBIR) National Institutes of Health, Bethesda MD
1999-2010	Scientific reviewer, Institute for the Study of Aging, New York
1995-2002	Scientific reviewer, Case Western Reserve University Alzheimer's Disease Research Center Pilot Grant Program
1994	Scientific reviewer, Claude D. Pepper Center, Pilot Grant Program, Case Western Reserve University

### **UNIVERSITY ACTIVITIES:**

- A. **University of Alabama-Birmingham, Birmingham, Alabama**
1. University of Alabama School of Medicine  
2013-2015 Member, Faculty Council
  2. UAB Hospital

2014              Chief of Staff's Delirium Task Force

- 3. Department of Neurology
  - 2016-present    Chair, Departmental Promotions & Tenure Committee
  - 2014-2015       Chair, Stroke Division Director Search Committee
  - 2012-present     Member, Research Oversight Committee
  - 2011-present     Member, Departmental Promotions & Tenure Committee
  - 2011-2013       Member, Ackerman/Warren Professor Search Committee
- 4. Department of Psychiatry and Behavioral Neuroscience
  - 2015-present     Member, Geriatric Psychiatry Search Committee
- 5. McKnight Brain Institute
  - 2011-2012       Member, Cognitive Battery Development Working Group

**B. University of Virginia, Charlottesville, Virginia**

- 1. Institute on Aging
  - 2004-2011       Member, Advisory Board
- 2. School of Medicine:
  - 2006-2011       Chair, Academic Standards and Achievement Committee
  - 2005-2011       Member, Clinical Medicine Committee
- 3. Medical Center
  - 2003-2009       Medical Director, Fontaine Adult Neurology Clinic
  - 2007              Ambulatory Services Guidelines/Blueprint work group
- 4. Health Services Foundation
  - 2008-2011       Physicians Advisory Council on Contracting
- 5. Department of Neurology:
  - 2006              Electronic Record Implementation Group
  - 2006-2011       Undergraduate Medical Education Committee (Chair)
  - 2004-2011       Resident Education Committee
  - 2003-2009       Neurology Ambulatory Services Team Committee

**C. Case Western Reserve University/University Hospitals of Cleveland  
Cleveland, Ohio**

- 1. Alzheimer Center/Memory and Aging Center
  - 1999-2002       Internal Advisory Committee, Alzheimer Center
  - 1994              Co-Chair, Investigator Interface Task Force,
- 2. Department of Neurology
  - 1996-98           Computerized Medical Record Committee
  - 1994-98           Chairman, Committee on Equity in Professional Affairs
- 3. University Hospitals of Cleveland
  - 1996              Rehabilitation Unit Advisory Committee
  - 1995-99           Faculty, Fellowship for Journalists in Biomedical Research
  - 1993-2002       ElderHealth Center Medical Management Committee
  - 1993-95           Chair, Stroke Extended Care Path Development Committee
  - 1993              Residency Review Committee, Department of Neurology
  - 1993              ElderHealth Care Task Force
  - 1993              Geriatric Psychiatry Work Group

- D. Robert Wood Johnson University Hospital,  
New Brunswick, New Jersey**
- |      |   |
|------|---|
| 1992 | Chairman, Patient Care Committee, Neurology Service |
| 1992 | Prognosis Committee                                 |

#### **EDITORIAL BOARD MEMBERSHIPS:**

- |              |   |
|--------------|---|
| 2008-present | Brain Injury, (Taylor and Francis, publisher)   |
| 2007         | Reviews in Neurological Diseases- Section Editor/Editorial Board<br>(MedReviews, publisher) |
| 2006-2009    | Dementia - Contributing Editor (Carma Publishing)   |
| 2005-2007    | Practical Neurology- Contributing Editor,<br>(Avondale Medical, publisher)                  |
| 1994-2002    | Alzheimer's Disease and Associated Disorders<br>(Lippincott Williams & Wilkins, publisher)  |

#### **MAJOR RESEARCH INTERESTS:**

My research focuses primarily on treatment approaches for people with dementia. This includes investigator-initiated trials of novel drugs through typical federal- and industry-sponsored multicenter studies. I serve on steering and publication committees for these trials. Additionally, I have been developing an alternative model of assessing treatment success in dementia care known as “Family Quality of Life.”

#### **TEACHING EXPERIENCE:**

##### **A. Scholarly presentations**

1. **University of Alabama – Birmingham**
  - A. Neurology Grand Rounds
    - 9-13-2011 – Short- and Long-Term Targets for Alzheimer Prevention”
    - 10-1-2013 - Developing excellence in teaching for faculty and residents:  
How to be the teacher everyone wants to have
    - 6-9-2015 - Driving in Dementia: The Doctors’ Dilemma
    - 9-27-2016 – Cognition in Parkinson’s disease and related disorders
  - B. Grand Rounds – Other Departments
    - a. Geriatrics/Gerontology
      - 6-30-2011 – Embroilments, Evidence, and Expectations in Alzheimer’s Disease
      - 5-10-2012 – The Exasperating Experiences of Mrs. P – Case Study in Dementia
      - 6-10-2013 – The Confusing Case of Mrs. C – Visual Dysfunction in Neurodegenerative disease
      - 9-6-2014 - Developing excellence in teaching for faculty and residents:  
How to be the teacher everyone wants to have
    - b. Endocrinology
      - 4-20-14 Hashimoto’s Encephalopathy
    - c. Pediatrics
      - 7-3-14 Developing excellence in teaching for faculty and residents:  
How to be the teacher everyone wants to have

- C. Behavioral Neurology/Neuropsychology Noon Conference
  - 6-28-2011 Using Patient and Family Centered Outcomes to Optimize Dementia Care
  - 4-24-2012 Development of the ‘Alabama Brief Cognitive screen’ (ABC)
  - 1-22-2013 Information Flow in Cerebral Cortex: Implications for Localization of Cognitive Function
  - 5-28-2013 The New Alphabet Soup of Dementia Diagnosis: ICD-10 and DSM-5
  - 9-23-2014 Alzheimer’s Risk Assessment and Intervention Clinic (ARAIC)
  - 4/28/2015 Driving and Dementia: The Doctor’s Dilemma
  - 6/23/2015 Neurodegenerative Dementia Prodromes
  
- 2. University of Virginia School of Medicine
  - A. Neurology Grand Rounds
    - 2-11-2011 – “Was Wernicke Wrong? – Electrocorticography and aphasia”
    - 3-26-2010 – “Can Alzheimer’s disease be prevented”
    - 7-10-2009 – “Treatment of behavioral symptoms in dementia”
    - 8-22-2008 – “Interdisciplinary Care in Dementia”
    - 3-10-2008 - “The Anatomic basis of Executive Function”
    - 11-9-2007 – “Exploring the Diabetes-Dementia Link”
    - 10-27-2006 – “Aging, Women’s Health, and Cognition”
  - B. Family Medicine Grand Rounds
    - 8-10-2010 “Case Based approach to dementia”
    - 1-15-2010 “Practical dementia care”
  - C. Psychiatry Grand Rounds
    - 3-27-2007 – “Rational approach to behavioral symptoms in dementia”
  - D. Office of Graduate Medical Education Resident-as-Teacher program
    - 5-23-2007 - Use of the Clinical Teaching Perception Inventory to enhance teaching skills.”

### 3. School of Medicine Coursework

#### A. University of Alabama at Birmingham

Year	Course Title	Activity	No. of Students	Contact Hours
2015-16	Medical Neuroscience	Small Group Leader	10	6
2015-16	GBS 729 Translational Approaches in Neurodegeneration	Lecture/Discussion Group	12	1.5
2015-16	GBS 790 Clinical Evaluation of Cognitive Disorders	Lecture/ clinical precepting	8	9
2014-15	GBS 790 Clinical Evaluation of	Lecture/ clinical precepting	7	22

	Cognitive Disorders			
2013-14	GBS 790 Clinical Evaluation of Cognitive Disorders	Lecture/ clinical precepting	5	16
2012-13	GBS 790 Clinical Evaluation of Cognitive Disorders	Lecture/ clinical precepting	6	19
2012-13	Medical Neuroscience	Lecture: Cortical Integration	150	1

### B. University of Virginia

<i>Year</i>	<i>Course Title</i>	<i>Activity</i>	<i>No. of Students</i>	<i>Contact Hours</i>
2010-11	Neurology Clerkship	Didactic Seminars Pretest review	10-16 10-16	9 x 0.5 9 x 1.5
2009-10	Neurology Clerkship	Didactic Seminars Pretest review Clinical skills teaching Practice of Medicine-2	10-16 10-16 5	12 x 0.5 12 x 1.5 1 x 1.5
	Medical Neuroscience	Neurologic Exam Techniques Clinical Case Studies	6 35	3 2
2008-09	Neurology Clerkship	Didactic Seminars Pretest review Practice of Medicine-2	12-15 12-15 8	8 x 0.5 8 x 1.5 3
	Medical Neuroscience	Neurology Cases Clinical Case Studies	20 35	2 x 2 2
2007-08	Practice of Medicine-2	Neurologic Exam Techniques	10	3
	Neurology Clerkship	Didactic Seminars Case Problem sets Pretest review	12-15 12-15 12-15	8 x 0.5 1 x 1.5 10 x 1
2006-7	Practice of Medicine-2	Neurologic Exam	12	3
	Neurology Clerkship	Didactic Seminars Case Problem sets Pretest review	16-20 16-20 16-20	5 x 0.5 3 x 1.5 10 x 1
2005-6	Practice of Medicine-2	Neurology Cases	20	2
	Neurology Clerkship	Didactic Seminars Case Problem Sets Pretest review	16-20 16-20 16-20	5 x 0.5 4 x 1.5 11 x 1

	Medical Neuroscience	Lecture-Laterality	140	1
2004-5	Practice of Medicine-2	Neurologic Exam Technique	12	3
		Neurology Cases	20	2
2003-4	Neurology Clerkship	Didactic seminars	12-15	3 x 0.5
2002-3	Practice of Medicine-2	Neurologic Exam Technique	8	3

#### **4. Classroom Teaching (in Schools other than Medicine)**

1. Guest Lecture: UAB Science and Technology Honors Program  
Course STH299 'Mechanisms of Learning and Memory'  
Title: *Alzheimer's disease*  
16 undergraduates, 1.5 contact hours  
Fall Term 2011-15
2. Guest Lecture: UAB Undergraduate Honors College  
Course: HON321 "Neurology and Liberal Arts"  
Title: *Implementing a reflective writing assignment in clinical training*  
10 undergraduates, 1 contact hour  
Spring Term 2011
3. Guest Lecture: UVa School of Nursing  
Course GNUR550 "Pharmacology"  
Title: *Treatment in Dementia: Evidence and Expectations*  
30-40 Graduate Nursing Students, 1.5 contact hours  
Spring term 2008-10  
Summer Term 2008-10
4. Guest Lecture: Frances Payne Bolton School of Nursing, Case Western Reserve  
Course NURS459 "Integrated Assessment."  
Title: *4 D's: Differentiating Delirium, Dementia, and Depression*  
40-60 Graduate Nursing Students, 2 contact hours  
Spring term 1997-2002
5. Guest Lecture: Mandel School of Applied Social Sciences, CWRU  
Course SASS547 "Problem Identification & Assessment/Diagnosis"  
Title: *Practical Approaches to Dementia Recognition*  
20-30 Graduate Nursing Students, 2 contact hours  
Fall term 1999-2001
6. Guest Lecture: Graduate Program in Psychology CWRU  
PSCL469 'Psychology of Aging'  
Title: *Alzheimer's disease*  
15 Graduate Students in Clinical Psychology, 2 contact hours  
Fall term 1996

#### **B. Clinical Teaching (Fellows, Residents, and Medical Students):**

## 1. University of Alabama-Birmingham

- Inpatient (General Neurology and Stroke services)
  - 2-3 weeks per year
  - Learners (typical)
    - 3 Neurology residents (PGY-4 x1; PGY-2 x2)
    - 3 3<sup>rd</sup> year medical students
- Inpatient Neurology Consultation
  - 2-4 weeks per year
  - Learners (typical)
    - 2-3 Neurology residents (PGY-3 or 4)
    - 1 or 2 PGY 1 (Psychiatry, Internal medicine)
- Outpatient (Memory Disorders Specialty Clinic)
  - 24-80 ½ day teaching sessions per year
  - Learners (typical)
    - 1 Resident or Postdoctoral fellow
    - Residents: Neurology, Internal Medicine, Psychiatry
    - Fellows: Neurology, Geriatrics, Psychology
    - 1 medical student (MS-3 or MS-4)

## 2. University of Virginia Health System (2002-2011)

- Inpatient (General Neurology and Stroke services)
  - 4-8 weeks per year
  - Learners (typical)
    - 3 Neurology residents (PGY-4 x1; PGY-2 x2)
    - 2 PGY-1 (Internal Medicine, Psychiatry, PM & R)
    - 1 4<sup>th</sup> year medical student
    - 3 3<sup>rd</sup> year medical students
- Inpatient Neurology Consultation
  - 2-8 weeks per year
  - Learners (typical)
    - 1 Neurology resident (PGY-3 or 4)
    - 1 or 2 PGY 1 (Psychiatry, PM & R)
    - 3 3<sup>rd</sup> year medical students
- Outpatient (General Neurology)
  - Up to 40 ½ day sessions per year
  - Learners (typical)
    - 1-4 Neurology residents (all PG levels)
    - 2 3<sup>rd</sup> year medical students
- Outpatient (Memory Disorders Specialty Clinic)
  - 40-100 ½ day teaching sessions per year
  - Learners (typical)
    - 1 Resident or Postdoctoral fellow
    - Residents: Neurology, Family Medicine
    - Fellows: Neurology, Geriatrics, Gero-psychiatry

**3. University Hospitals/Case Western Reserve University (1993-2002)**

- Inpatient (General Neurology service)
  - 1-2 months per year
  - Learners (typical)
    - 5 Neurology residents (PGY-4 x1; PGY-2 x4)
    - 3 3<sup>rd</sup> year medical students
- Inpatient Neurology Consultation
  - 1-2 weeks per year
  - Learners (typical)
    - 1 Neurology resident (PGY-3 or 4)
- Outpatient (Dementia Specialty Clinic)
  - 25-100 ½ day teaching sessions per year
  - Learners (typical)
    - 1 Resident or Postdoctoral fellow
    - Residents: Neurology
    - Fellows: Neurology, Geriatrics, Gero-psychiatry

**4. Robert W. Johnson University Hospital (1991-1992)**

- Inpatient (General Neurology service)
  - 6 weeks per year
  - Learners (typical)
    - 5 Neurology residents (PGY-4 x1; PGY-2 x4)
    - 3 3<sup>rd</sup> year medical students

**C. Postgraduate Medical Education/Teaching**

**1. University of Alabama-Birmingham**

- a. Neurology Morning Report (2011-16)
  - Clinical case reviews
    - (12-16 sessions/year x 30 minutes/session)
- b. Neurology Residency Noon Lecture Series (2011-14)
  - Acute encephalopathy
  - Practical Dementia Differential Diagnosis
  - Anatomy of Executive Function
  - Evidence and expectations in dementia therapy
  - Neglect and Visuospatial Dysfunction
- c. Geriatric Medicine teaching sessions 2011-2014
  - Clinical Approach to Dementia
  - Evidence basis of dementia therapeutics
  - Update on dementia criteria

**2. University of Virginia**

- a. Neurology Acute Care Lecture Series
  - Acute Spinal Syndromes- 1 hour, presented annually 2003-2010
  - Change in mental state - 1 hour, presented annually 2005-2010
- b. Neurology Residency Noon Lecture Series (2003-2010)
  - 3-8 sessions annually, each 1 hour

Topics:

- Aphasia
- Neglect
- Anatomy of Executive Function
- Mental State/Cognitive Exam
- Dementia Differential Diagnosis
- Documentation and Coding
- Laterality
- Behavioral neurology- approach to dementia
- Working effectively with the pharmaceutical industry

c. Neurology Residents Journal Club (2005 series)

3 1-hour sessions on dementia topics

d. Physical Medicine and Rehabilitation resident conference

2 1-hour sessions in the 2007-08 series

Topics:

- Nontraumatic myelopathies
- Self-Perception of teaching styles

e. Postdoctoral Fellow Teaching

- Geriatrics Journal Club -  
9-22-03 Delay to Nursing Home in AD
- Geriatrics core curriculum conference  
2-22-10 Evidence Basis of treatment in Alzheimer's disease  
12-10-07 Emerging therapies in Alzheimer's disease
- Joint Neuropsychology Postdoctoral Fellows conference  
3-16-09 Posterior Cortical Atrophy Syndrome  
3-4-08 Pharmacotherapy in Dementia  
9-24-07 Neurological Approach to Dementia  
8-20-07 Imaging in Dementia

**MAJOR LECTURES AND VISITING PROFESSORSHIPS:**

**A. Invited Presentations at Academic Medical Center Grand Rounds/Conferences  
(Past 5 years)**

1. Neurology Grand Rounds, University of Miami Miller School of Medicine, Miami FL, April 2014  
Topic: Visual disorders and cognition in aging and neurodegeneration
2. Keynote Address (with Karen Rose, RN, PhD)  
Tuskegee University School of Nursing Scholarly Conference  
Tuskegee, AL, March 2012  
Topic: Family Quality of Life in Dementia
3. *Artiss Powell, MD Memorial* invited lecture;  
Robert Wood Johnson Medical School Neurology Grand Rounds  
New Brunswick, NJ, December 2011  
Topic: Visuospatial dysfunction in neurodegenerative disease

**B. Visiting Professorships:**

2014 University of Miami Miller School of Medicine, Department of Neurology

Research Day. Miami FL

- 2011 Robert Wood Johnson Medical School, Department of Neurology,  
New Brunswick, NJ
- 2010 Dalhousie University, Division of Geriatrics
- 2006 Case Western Reserve University, Department of Psychiatry, Cleveland, Ohio
- 2005 University of Texas-Southwestern/VAMC Geriatric Psychiatry, Dallas, TX
- 2003 Cleveland Clinic Foundation, Section on Geriatrics, Cleveland, OH
- 1999 University of Alabama-Birmingham, Alzheimer Center, Birmingham, AL
- 1996 University of Colorado, Center on Aging, Denver, CO
- 1994 Emory University, Geriatrics Center/Behavioral Neurology, Atlanta, GA

**C. Invited Lectures (National and International, last 5 years)**

*(Local/regional lectures available upon request)*

1. Cognition in Parkinson's Disease and Dementia with Lewy Bodies  
Invited Lecture, Movement Disorders Society Young Neurologist's Course  
Atlanta, Georgia, April 2016
2. Cognition in Parkinson's Disease  
Invited Lecture, Movement Disorders Society Young Neurologist's Course  
Atlanta, Georgia, February 2015
3. High Dose Cholinergic Therapy in Moderate and Severe Alzheimer Disease  
Invited Lecture, Indian Academy of Neurology Annual Conference,  
Indore, India, October 2013
4. Clinical Approaches to the Shifting Boundaries of Normal Cognitive Aging  
McKnight Brain Research Foundation Annual Inter-institutional Meeting  
Ross Bridge, AL, April 2013
5. Aging, Vision, and Cognition  
McKnight Brain Research Foundation Annual Inter-institutional Meeting  
Miami, FL, May 2011

**GRANT SUPPORT: (PAST AND CURRENT)**

**A. Federal:**

- 2014 – 2019 Investigator, 1R01AG045154 “Processing Speed Training Preserve Driving and Functional Competencies in MCI” (V. Wadley, PI; 10% effort)
- 2011-2015 Investigator, NIA 2RO1-AG02197 “Functional change in mild cognitive impairment” (D. Marson, PI; 2% effort)
- 2011-2014 Investigator, Alzheimer's Disease Neuroimaging Initiative Grand Opportunity (ADNI-GO; D. Marson, site PI)

2011-present	Investigator, Alzheimer's Disease Neuroimaging Initiative-2 (ADNI-2; D. Marson, site PI)
2001-2004	Principal Investigator, NIA RO1-AG28905 "Pioglitazone In Alzheimer Disease Progression" (\$216,000 annual direct costs, 20% effort)
2000-2001	Clinical Core Director, NIA P50-AG08012 (P.Whitehouse/K. Herrup PIs) Alzheimer's Disease Research Center (\$400,000 annual direct costs, 25% effort)

#### B. State/Local

2015-present	Principal Investigator, UAM Personalized Medicine Initiative Pharmacogenetic guidance to optimize safety and efficacy of psychotropic drug use in treatment of behavioral and psychiatric symptoms in dementia. (150,000 2 year award, 0% effort)
2008-09	Investigator, (George Bloom PI) Ivy Fund Award <i>Development of Radiological Imaging Tools for Early Diagnosis of Alzheimer's Disease</i> (\$55,000 one year award, 0% effort)
2004-05	Principal Investigator, Virginia Center on Aging Alzheimer's Pilot Award <i>Eye-movement approaches to information processing abnormalities in mild cognitive impairment.</i> (\$25,000 annual direct cost; 10 % effort)
2000-02	Program Leader, Raymond & Elizabeth Evans Foundation, <i>Understanding Parkinson's Disease for Health Care Providers</i> (\$250,000 unrestricted grant, 10% effort)
1996-97	Principal Investigator, Alzheimer Center Pilot Grant NIA P50AG08012 "Visual search in aging and Alzheimer's disease"(\$25,000 direct cost 10% effort)
1993-94	Principal Investigator - Pepper/NIA Pilot Grant Program P60AG010418 "Aging and continuous visuospatial search." (\$20,000 direct cost 10% effort)
1992-93	Principal Investigator - Foundation of UMDNJ Pilot Grant #36-93, "Attentional allocation following traumatic brain injury." (\$25,000 direct cost, 10% effort)

#### C. Investigator Initiated Clinical Trials (Industry Sponsored)

1. Principal Investigator, Takeda Pharmaceuticals North America "Pioglitazone In Alzheimer Disease Progression" (Supplied drug and placebo, \$60,000 annual value) 2001-2004
2. Principal Investigator, Eisai America Inc. A preliminary double-blind study evaluating the effect of donepezil (E2020) on visuospatial attention in patients with Alzheimer's disease. (Total costs \$254,000)

1995-1996

#### D. Clinical Trials Research Contracts

1. A Phase 2, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Cross-Over Study to Assess the Safety, Tolerability and Efficacy of AVP-786 for the Treatment of Disinhibition in Patients with Neurodegenerative Disorders.  
Site Principal Investigator - Avanir Pharmaceuticals  
2016-present
2. A Multicenter, Open-Label, Long-Term Treatment Study of Intravenously Administered BMS-986168 in Patients with Progressive Supranuclear Palsy who Participated in Study CN002003  
Site Principal Investigator – Bristol Myers Squibb  
2016- present
3. Longitudinal Evaluation of Amyloid Risk and Neurodegeneration – the LEARN Study: A Companion Observational Study to Anti-Amyloid Treatment in Asymptomatic Alzheimer's Disease (A4) Trial  
Site Principal Investigator – Alzheimer's Assoc./Univ. Southern California  
2015-present
4. A Randomized, Double-Blind, Placebo-Controlled. Multiple Ascending Dose Study of Intravenously Administered BMS-986168 in Patients with Progressive Supranuclear Palsy  
Site Principal Investigator – Bristol Myers Squibb  
2015- present
5. A Phase 2, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Cross-Over Study to Assess the Safety, Tolerability and Efficacy of AVP-786 for the Treatment of Disinhibition in Patients with Neurodegenerative Disorders.  
Site Principal Investigator - Avanir Pharmaceuticals  
2016-present
6. A Phase 3 Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Aducanumab (BIIB037) in Subjects with Early Alzheimer's Disease (EMERGE)  
Site Principal Investigator – Biogen  
2014-present
7. Anti-Amyloid Treatment in Asymptomatic Alzheimer's Disease (Study A4)  
Site Principal Investigator – UCSD/NIH/Lilly  
2012-present
8. An open-label extension study to evaluate the long-term safety and tolerability of LuAE58054 as adjunctive treatment to acetylcholinesterase inhibitors in patients with mild-moderate Alzheimer's disease

Site Principal Investigator –H. Lundbeck A/S  
2014 –16

9. Randomised, Double-Blind, Parallel-Group, Placebo Controlled, Fixed-Dose Study of Lu AE58054 in Patients with Mild to Moderate Alzheimer's Disease Treated with Donepezil; Study 1

Site Principal Investigator –H. Lundbeck A/S  
2014 –16

10. A 36 Week Safety Extension Study of Oral ELND005 for Treatment of Agitation and Aggression in Patients With Moderate to Severe Alzheimer's Disease

Site Principal Investigator- Elan Pharma International Limited  
2013-present

11. A Prospective, Randomized, Double-Blind, Placebo-Controlled, Phase 2 Efficacy and Safety Study of Oral ELND005 for Treatment of Agitation and Aggression in Patients With Moderate to Severe Alzheimer's Disease

Site Principal Investigator- Elan Pharma International Limited  
2013-2014

12. A Placebo-controlled, Double-blind, Parallel-group, Bayesian Adaptive Randomization Design and Dose Regimen-finding Study to Evaluate Safety, Tolerability and Efficacy of BAN2401 in Subjects With Early Alzheimer's Disease

Site Principal Investigator – Eisai, Inc.  
2013 –present

13. Randomized, Controlled Study Evaluating CERE-110 in Subjects With Mild to Moderate Alzheimer's Disease

Site Principal Investigator –Ceregene/ADCS (sponsors)  
2012-2015

14. A Randomized, Double-Blind, Placebo-Controlled, Phase III Parallel Group Study of the Safety and Effectiveness of Immune Globulin Intravenous (Human), 10% (IGIV, 10%) for the Treatment of Mild-To-Moderate Alzheimer's Disease

Site Principal Investigator –Baxter (sponsor)  
2012-2013

15. A Randomized, Double-Blind, Placebo-Controlled, Two Dose-Arm, Parallel Study of the Safety and Effectiveness of Immune Globulin Intravenous (Human), 10% (IGIV, 10%) for the Treatment of Mild-To-Moderate Alzheimer's Disease

Investigator; (J. Brockington, site PI) - NIA/Baxter (sponsors)  
2011-2012

16. A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Efficacy and Safety Trial of Bapineuzumab in Subjects With Mild to Moderate Alzheimer Disease Who Are Apolipoprotein E ε4 Non-Carriers (Protocol 3133K1-3000)

Site Principal Investigator –Pfizer (sponsor)  
2010-2011

17. A Phase 3 Extension, Multicenter, Double-Blind, Long-Term Safety and Tolerability Treatment Trial of Bapineuzumab (AAB-001, ELN115727) in Subjects With Alzheimer's Disease Who Participated in Study ELN115727-301 or Study ELN115727-302. (Protocol 115727-351)  
Site Principal Investigator –Janssen Alzheimer Immunotherapy (sponsor)  
2008-2011
18. Effects of Rivastigmine Patch on Activities of Daily Living and Cognition in Patients With Severe Dementia of the Alzheimer's Type (ACTION)  
Site Principal Investigator – Novartis Pharmaceuticals (sponsor)  
2010-2011
19. CONCERT: A Phase 3 Multicenter, Randomized, Placebo-Controlled, Double-Blind Twelve Month Safety and Efficacy Study Evaluating Dimebon in Patients With Mild-to-Moderate Alzheimer's Disease on Donepezil  
Site Principal Investigator- Medivation Inc. (sponsor)  
2009- 2011
20. A Randomized, Double-Blind, Placebo-Controlled, Dose-Ranging, Safety and Efficacy Study of Oral ELND005 (AZD-103) in Alzheimer's Disease (Protocol ELND005-AD201)  
Site Principal Investigator – Élan Pharmaceuticals (sponsor)  
2008-2011
21. A phase III, multicenter, randomized, double-blind, placebo-controlled, parallel- group, efficacy and safety trial of bapineuzumab (AAB-001, eln115727) in patients with mild to moderate Alzheimer's disease who are apolipoprotein Eε4 non-carriers. (Protocol 115727-301)  
Site Principal Investigator – Élan Pharmaceuticals (sponsor)  
2008- 2011
22. A phase III, multicenter, randomized, double-blind, placebo-controlled, parallel- group, efficacy and safety trial of bapineuzumab (AAB-001, eln115727) in patients with mild to moderate Alzheimer's disease who are apolipoprotein Eε4 carriers. (Protocol 115727-302)  
Site Principal Investigator – Élan Pharmaceuticals (sponsor)  
2008 - 2011
23. Open Label Continuation Study of the Safety of 23mg Donepezil Sustained Release Donepezil Immediate Release in Patients with Moderate to Severe Alzheimer's Disease protocol E2020-G006-328)  
Site Principal Investigator – Eisai, Inc. (sponsor)  
2008-2010
24. Double-Blind, Parallel-Group Comparison of 23mg Donepezil Sustained Release to 10mg Donepezil Immediate Release in Patients with Moderate to Severe Alzheimer's Disease protocol E2020-G006-326)  
Site Principal Investigator – Eisai, Inc. (sponsor)  
2007-2008
25. An Open-Label Extension Study Evaluating the Safety of Memantine in Patients with Moderate to Severe Dementia of the Alzheimer's Type. (Protocol MEM-MD-82)

Site Principal Investigator – Forest Laboratories sponsor)  
2007 – 2009

26. An Open-Label Evaluation of the Safety of Memantine in Patients with Moderate-to-Severe Dementia of the Alzheimer's Type (Protocol MEM-MD-51)  
Site Principal Investigator – Forest Laboratories (sponsor)  
2007 - 2008
27. Open-label extension study of the Effect of Daily Treatment with MPC-7869 on subjects with Mild to Moderate Dementia of the Alzheimer's Type. (Protocol MP -7869-04-008)  
Site Principal Investigator – Myriad Pharmaceuticals (sponsor)  
2006 - 2008
28. A 54-week, double-blind, randomized, placebo-controlled, parallel-group study to investigate the effects of rosiglitazone (extended release tablets) as adjunctive therapy to acetylcholinesterase inhibitors on cognition and overall clinical response in *APOEε4*-stratified subjects with mild to moderate Alzheimer's disease (REFLECT-3)  
Site Principal Investigator – GlaxoSmithKline(sponsor)  
2006 - 2008
29. Phase 3, Randomized, Double Blind, Placebo Controlled Study of the Effect of Daily Treatment with MPC-7869 on Measures of Cognitive and Global Function in Subjects with Mild to Moderate Dementia of the Alzheimer's Type. (Protocol MPC-7869-04-005)  
Site Principal Investigator – Myriad Pharmaceuticals (sponsor) 2005 - 2007
30. A randomized, double-blind, placebo-controlled trial to evaluate the safety and efficacy of Donepezil HCL in mild cognitive impairment.  
Site Principal Investigator – Eisai, Inc. (sponsor)  
2004-2006
31. Randomized, double-blind placebo-controlled trial of valproate for neuroprotection in Alzheimer's disease.  
Site Principal Investigator – NIA/AD Cooperative Study  
2004-2006
32. A Phase II Double-Blind, Randomized, Dose-Ranging, Placebo-Controlled, Multicenter, Safety and Efficacy Evaluation of Three Doses of NS2330 in Patients with Mild to Moderate Dementia of the Alzheimer's Type.  
Site Principal Investigator – Boehringer-Ingelheim (sponsor)  
2002-2004
33. A randomized, double-blind, placebo-controlled study to determine the safety and efficacy of FK 960 in patients with mild to moderate probable Alzheimer's Disease (AD).  
Site Principal Investigator – Fujisawa, Inc. (sponsor)  
1999-2000
34. A randomized, double-blind, placebo-controlled trial to evaluate the safety and efficacy of Vitamin E and Donepezil HCL (Aricept ®) to delay clinical progression from Mild Cognitive Impairment (MCI) to Alzheimer's Disease (AD).  
Co-Investigator, NIA-Alzheimer's Disease Cooperative Study

1998- 2002

35. A 24-week, multi-center, randomized, double-blind, placebo-controlled Evaluation of the Efficacy and Safety of Donepezil Hydrochloride (E2020) in patients with dementia associated with Cerebrovascular Disease.  
Site Principal Investigator, Eisai, Inc. (sponsor)  
1997 –1999
36. An Open Label Study to Evaluate the Safety and Efficacy of 1.5 mg bid (3 mg per day) Through 6 mg bid (12 mg per day) of Exelon in Patients with Mild to Severe Probable Alzheimer's Disease in the Community Setting. #ENAB356.  
Site Principal Investigator, Novartis Pharmaceutical (sponsor)  
1997-1999
37. An open label administration of SB202026 in patients suffering from probable dementia of the Alzheimer's type.  
Site Co-Principal Investigator, SmithKline Beecham (sponsor)  
1995-97
38. A randomized double-blind, placebo controlled dose-ranging study of the efficacy and tolerability of SB202026 in patients suffering from dementia of the probable Alzheimer's type.  
Site Co-Principal Investigator, SmithKline Beecham (sponsor)  
1995-97
39. An open-label, multicenter, extended evaluation of the safety and efficacy of E2020 in patients with Alzheimer's disease.  
Site Principal Investigator, Eisai America, Inc. (sponsor)  
1994-97
40. 15-week multicenter randomized, double blind, placebo controlled evaluation of the safety and efficacy of E2020 in patients with Alzheimer's disease.  
Site Principal Investigator, Eisai America, Inc (sponsor)  
1994-95

## **OTHER:**

### **Educational Programs Administration and Leadership**

1. Course Director, *MemoryCommons.org*, ongoing Internet based CME service (launch date 7-12-2010).  
This internet based CME portal is being developed jointly as a collaboration of the UVA CME Office, the UVa Institute on Aging, the UVA School of Nursing, The Virginia Commonwealth University Gerontology program, and the Central and Western Virginia Chapter of the Alzheimer's Association. The program is modeled on the highly successful CardioVillage.com, a web-based CME portal for cardiovascular education developed by the UVA CME office. Cardiovillage has operated since 1999 and has had >100,000 users.
2. Course Director, *Collaborating to Fight Alzheimer's Disease: Integrated Approaches to Research, Treatment and Care Giving - CME program June 20, 2009*  
This course was developed jointly with the UVa Institute on Aging and the Central and Western Virginia Chapter of the Alzheimer's Association. It was supported by a \$22,000 conference grant from the state-funded Virginia Center on Aging.

3. Chairman, Annual Dementia Congress, 2002-2008. CME-accredited by the Academy for Healthcare Education, New York.  
 This annual program, supported by unrestricted educational grants from the pharmaceutical industry, was the largest clinically focused dementia specific CME program in the world. As chair, I developed the agenda, tone, and faculty selections in conjunction with the accrediting body. I oversaw the content development by the faculty, and moderate the program, which attracts 800-1000 attendees over three days each year.
4. Course Director, “ 2nd Virginia Dementia Congress” – CME program at UVa, October 7, 2006.  
 This course was developed jointly with the Central and Western Virginia Chapter of the Alzheimer’s Association designed to provide physicians and nonphysician providers of dementia care with an interdisciplinary review of best practices in dementia care. It was approved for 6 CME hours through the UVa CME office.
5. Director, Neurology Clerkship - University of Virginia Department of Neurology – 2005-2011
6. Course Director, “Virginia Dementia Congress” – CME program at UVa, December 3-4, 2004.  
 This course was designed to provide clinicians and researchers in AD with a review of recent approached. It was approved for 7.5 CME hours through the UVa CME office.
7. Director, Raymond and Elizabeth Evans Program in Understanding Parkinson’s Disease” Case Western Reserve University 2000-2002
  - Developed series of educational programs on PD targeting hands-on family- and paid-caregivers for patients with Parkinson’s disease. Interdisciplinary programming, including physician, social work, registered nurse, and physical therapy didactics was Nursing-CEU approved.
  - Developed video-tape program for self instruction of caregivers (Won first place in Northern Ohio film festival for instructional/educational material)

## BIBLIOGRAPHY

- Organized by manuscript type; reverse chronological order
- Asterisk indicates corresponding author, student/trainee names underlined;

**Summary:** **88 indexed publications, 3399 total citations**

**H Index = 23**

(per Scopus database, accessed 10/31/2016)

### A. Peer Reviewed (original research)

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2. Fritsch T\*, McClendon MJ, Wallenda MS, Smyth KA, Geldmacher DS, Hyde TF, Leo GJ. Can a Memory Club Help Maintain Cognitive Function? A Pilot Investigation, *Activities, Adaptation & Aging*, 2014; 38:, 29-52, doi: 10.1080/01924788.2014.878873

3. Clark DG\*, Kapur P, Geldmacher DS, Brockington JC, Harrell L, DeRamus TP, Blanton PD, Lokken K, Nicholas AP, Marson DC. Latent information in fluency lists predicts functional decline in persons at risk for Alzheimer disease. *Cortex* 2014; doi: 10.1016/j.cortex.2013.12.013
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5. Geldmacher DS, Kirson NY\*, Birnbaum HG, Eapen S, Kantor E, Cummings AK, Joish VN. Pre-Diagnosis Excess Acute Care Costs in Alzheimer's Patients among a US Medicaid Population. *Appl Health Econ Health Policy*. 2013;11:407-13. doi: 10.1007/s40258-013-0038-9.
6. Geldmacher DS, Kirson NY\*, Birnbaum HG, et al. Implications of early treatment among Medicaid patients with Alzheimer's disease. *Alzheimers Dement*. 2013 May 2. doi:pii: S1552-5260(13)00047-2. 10.1016/j.jalz.2013.01.015. [Epub ahead of print]
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11. Quigg M\*, Geldmacher DS, Elias WJ. Conduction aphasia as a function of the dominant posterior perisylvian cortex. Report of two cases. *Journal of Neurosurgery* 2006;104:845-8
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#### **B. Review articles (peer reviewed)**

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3. Cummings JL\*, Geldmacher D, Farlow M, Sabbagh M, Christensen D, Betz P. High-dose donepezil (23 mg/day) for the treatment of moderate and severe Alzheimer's disease: drug profile and clinical guidelines. *CNS Neurosci Ther*. 2013 May;19(5):294-301. doi: 10.1111/cns.12076. Epub 2013 Mar 6.
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## C. Books and Chapters

### Books

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**D. Editorial Activities:**

1. Guest Editor – Alzheimer's Disease and Dementia (special issue) *Clinics In Geriatric Medicine* 2004;20(1):1-157
2. Guest Editor –Dementia Update: Overview from the First Annual Dementia Congress; Journal of the American Geriatrics Society 2003;51 supplement:S281-S326
3. Editorial Consultant
  - a. Distinguishing vascular dementia from Alzheimer's Disease Patient Care 1999;33(17)71-89
  - b. Contemporary drug treatment Patient Care 2001;35(3)54-67
  - c. Providing care for the caregiver Patient Care 2001;35(3)68-86
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## E. Short Communications

### Letters To The Editor

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4. Geldmacher DS. Wake Up And Smell The Coffee. *Practical Neurology* 2007;6(10)12-13
5. Geldmacher DS. When What You Don't Know Can Hurt You. *Practical Neurology* 2007;6(9)10-11
6. Geldmacher DS. When Bad Things Happen to Good Proteins. *Practical Neurology* 2007;6(8)10-11

7. Geldmacher DS. Big-league Billing: How to Boost Your Batting Average Practical Neurology 2007;6(7):10-11
8. Geldmacher DS. Playing the Percentages Practical Neurology 2007;6(6):11-12
9. Geldmacher DS. A star is born. Practical Neurology 2007;6(5):14-15
10. Geldmacher DS. Paying at the pump and the high price of gas Practical Neurology 2007;6(4):14-15
11. Geldmacher DS. What if the patient doesn't care? Practical Neurology 2007;6(3):14-15
12. Geldmacher DS. "There you go again." Practical Neurology 2007;6(2):17-18.
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17. Geldmacher DS. What's the buzz on alcohol? Practical Neurology 2006;5(9):14-15
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## F. Abstracts

1. Geldmacher DS, Pilonieta G. The factorial structure of the Alabama Brief Cognitive screener in a Memory Disorders clinic population. Presented at the American Geriatrics Society 2016 Annual Scientific Meeting, Long Beach, CA, May 2016
2. Natelson Love M, Pilonieta G, Geldmacher DS. Alabama Brief Cognitive screener scores vary appropriately by diagnosis, resemble mmse scoring distributions, and predict level of impairment in instrumental activities of daily living in a Memory Disorders Clinic. Presented at the American Geriatrics Society 2016 Annual Scientific Meeting, Long Beach, CA, May 2016
3. Geldmacher DS, Pilonieta G. Development, Implementation, and Initial Patient Characteristics of an Alzheimer's Risk Assessment and Intervention Clinic. Poster presented at the *Alzheimer's Association International Conference*, Washington, DC, July 2015

4. Natelson Love M, Pilonieta G, Geldmacher DS. Alabama Brief Cognitive Screener Scores Predict Level of Impairment in Instrumental Activities of Daily Living and Dementia Diagnosis in a Memory Disorders Clinic. Poster presented at the *Alzheimer's Association International Conference*, Washington, DC, July 2015
5. Natelson Love M, Pilonieta G, Geldmacher DS. Alabama Brief Cognitive Screener Scores Vary Appropriately By Diagnosis and Resemble MMSE Scoring Distributions. Poster presented at the *Alzheimer's Association International Conference*, Washington, DC, July 2015
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8. Batra S, Sullivan JA, Geldmacher DS. Qualitative assessment of self-identity in advanced dementia. Poster presented at *NCUR 2014, The National Conference on Undergraduate Research*, Lexington, KY, April 2014
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11. Geldmacher DS, Riedel BC, Ducharme J. Family Composition and Family Care Priorities at an Academic Memory Disorders Clinic. Presented at *65th Annual Meeting of the American Academy of Neurology*, San Diego, CA, March 2013
12. Geldmacher DS, Kirson NY, Birnbaum HG, Eapen S, Cummings AK, Joish VN. Cost Implications of Early Treatment among Patients with Alzheimer's Disease – a Medicaid Perspective. Presented at *64th Annual Meeting of the American Academy of Neurology*, New Orleans, LA, April 2012
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16. Geldmacher DS. Faculty grading practices in a clinical clerkship. Presented at *UVa Academy of Distinguished Educators Poster Session* February 2010
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39. Ueberroth AN, Geldmacher DS. Target/distractor ratio effects on cancellation tasks in aging and Alzheimer's disease. International Neuropsychological Society Chicago, IL, February 2001.
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64. Geldmacher DS, Lerner AJ, Voci JM, Noelker EA, Somple LC, Whitehouse PJ. Treating functional decline in adults with Down's syndrome. Journal of Neuropsychiatry and Clinical Neuroscience, 1994; 6:312-313
65. Shuren J, Geldmacher DS, Heilman KM. Nonoptic Aphasia: Aphasia with preserved confrontation naming in Alzheimer's Disease. Neurology, 1993; 43(suppl 2):A404.
66. Shuren J, Geldmacher DS, Heilman KM. The direct route in naming as evidenced in a patient with Alzheimer's disease. Abstracts of the Academy of Aphasia, 1993.
67. Hills EC, Geldmacher DS. The effect of stimulus characteristics on visuospatial search quality following traumatic brain injury. Archives of Physical Medicine and Rehabilitation, 1992; 73:994.
68. Geldmacher DS, Hills EC. Visuospatial search quality following traumatic brain injury. Archives of Physical Medicine and Rehabilitation, 1992; 73:994.
69. Geldmacher DS, Heilman KM. Effect of upper vs. lower visual field on radial line bisections. Journal of Clinical and Experimental Neuropsychology, 1992; 14:35.
70. Geldmacher DS, Doty L, Heilman KM. Attentional bias in normal elderly subjects on a letter-cancellation task. Neurology, 1991; 41(suppl.):211.

71. Horel JA, Geldmacher DS, Cirillo R, George P. A comparison of the effects of reversible cold lesions in different parts of the inferotemporal cortex on the performance of visual tasks. Society for Neuroscience Abstracts, 1986; 12(1):744.

## MISCELLANEOUS:

**A. Curriculum Development: National Continuing Medical Education Courses**

1. Program Chair for “Prepackaged CME” construct, in collaboration with Physicians Institute for Excellence in Medicine, Georgia Medical Society, and American Academy of Physician Education - 2010
2. Course Director, “Management of behavioral comorbidities in dementia” (American Academy of Physician Education- CME Provider) – 2009
3. Course Co-Director, “Improving the Management of Alzheimer’s Disease in Residential Care” National CME/CEU Program in conjunction with American Society of Consulting Pharmacists (AKH, Inc.-CME provider) - 2008
4. Course Director, “Advances in Alzheimer’s and Dementia: Benchmarks in Diagnosis and Treatment” National CME Program, PeerView Institute (University of Michigan-CME Provider) – 2008
5. Course Co-Director, “Meet the Experts Interactive Case-Based Web Conferences: Evidence-Based Patient Case Studies in Alzheimer’s Disease,” Academic Alliances in Medical Education, Inc. (Tulane University-CME provider) – 2007
6. Course Director, “Optimizing Medical Management for Alzheimer’s Disease.” American Academy of Physician Education- CME Provider – 2007
7. Course Director, “Evidence-Based Strategies for Managing Alzheimer’s Disease,” National CME Program. Collaboration of American Academy of Family Practice state chapters and Academic Alliances in Medical Education, Inc. (Tulane University-CME provider) -2007

**B. Enduring Materials Development**

1. Member, Medical Advisory Board, Emmi Inc. Web-based programming for caregiver education in dementia.
2. Screenwriter – *Realities of dementia*. Scripted scenes of patient interactions with family and providers for video vignettes in support of CME programming.
3. Author – Knowledge Assessment, Contemporary Diagnosis and Management of Alzheimer’s Dementia First edition 2003: Newtown, Pennsylvania: Handbooks in Health Care, Co. (ISBN# 1-931981-16-7) Accredited through University of Virginia CME Office; Accreditation period 2003-2006
4. Supplement Editor – Dementia Update: Overview from the First Annual Dementia Congress; Journal of the American Geriatrics Society 2003;51 supplement:S281-S326; CME supplement. Accredited through Academy for Healthcare Education; Accreditation period 2003-2005

5. Co-Chair, Editorial Board; ADvantage (National Alzheimer's Disease CME Program); Accredited through Johns Hopkins University CME office; Accreditation period 2000-2004

**C. Health Education Video.** "Sometimes I Need a Helping Hand" -2001.

Script for video-tape program for self instruction of caregivers of patients with Parkinson's disease. (Awarded first place in Northern Ohio film festival for instructional/educational material)

**D. Community Service Activities**

1. Member, Advisory Board, Alzheimer's of Central Alabama, 2012-current
2. Member, Professional Advisory Board, Alzheimer's Association Greater Cleveland Chapter, Cleveland, Ohio, 1996-2002

**E. Community Lectures**

1. Neuroscience Café (sponsored by UAB Comprehensive Neuroscience Center)  
Hoover, AL, February 2016
2. Osher Lifelong Learning Institute – Birmingham Chapter  
Vestavia Hills, AL, February 2016
3. Neuroscience Café (sponsored by UAB Comprehensive Neuroscience Center)  
Hoover, AL, March 2015
4. Osher Lifelong Learning Institute – Birmingham Chapter  
Vestavia Hills, AL, March 2015
5. New Horizons senior learning (sponsored by UAB Comprehensive Neuroscience Center;  
Birmingham AL, January 2015
6. Osher Lifelong Learning Institute – Auburn Chapter  
Auburn, AL, March 2015
7. Featured Speaker (with Elizabeth Crooks, RN,DNP), Family Caregiver Educational Seminar, Fairhope, AL, July 2014
8. Invited Speaker, Alzheimer's in Alabama, Community Conference, Birmingham, AL, June 2014
9. Keynote Speaker, Twelfth Annual Lucy & John Caddell Alzheimer's Conference, Decatur, AL, April 2014
10. Invited Speaker (with Elizabeth Crooks, RN, MSN), Canterbury-Beeson Forum on Aging, Birmingham, AL August 2013
11. Keynote Speaker, Nolan-Stewart Educational Conference on Dementia, Birmingham, AL, July 2013
12. Keynote Speaker, Alzheimer's Educational Conference, Dothan AL, March 2012
13. Speaker, Canterbury-Beeson Forum on Aging, Birmingham, AL August 2011
14. Speaker, Central Alabama Aging Consortium's 9th Annual Alzheimer's Professional & Caregiver Conference, Montgomery, AL August 2011
15. Guest Lecturer, Jefferson Institute for Lifelong Learning,–Charlottesville, VA 2006, 2007
16. Featured Speaker Alzheimer's Association Educational Conference, Charlotte, NC 2005

17. Keynote Speaker – Alzheimer's Association Community Conferences (Virginia Chapters)

- a. Petersburg, Va 2008
- b. Norfolk, Va 2004
- c. Richmond, Va, 2004
- d. Harrisonburg Va, 2003

# **Dr. Stephan Anthony Mayer**

4/6/17

**Curriculum Vitae****STEPHAN ANTHONY MAYER, MD, FCCM****PERSONAL DATA**

**Date of Birth** September 22, 1962  
**Place of Birth** New York, NY  
**Citizenship** U.S.A.

**Office Address** Chair, Department of Neurology  
Henry Ford Health System  
2799 West Grand Boulevard  
Detroit, MI 48202  
Phone: (313) 916-7056  
E-mail: smayer2@hfhs.org

**Home Address** 346 Convent Avenue  
New York, NY 10031-4201

**ACADEMIC TRAINING**

1984 Brown University, A.B. (Biology)  
1988 Cornell University Medical College, M.D

**POSTDOCTORAL CLINICAL TRAINING**

*Presbyterian Hospital in the City of New York*  
1988-89 Intern, Department of Medicine

*Neurological Institute of New York,  
Columbia-Presbyterian Medical Center*

1989-92 Resident in Neurology  
1992-94 Fellow in Critical Care Neurology

**CERTIFICATION & LICENSING**

2008 Diplomate, Neurocritical Care, United Council of  
Neurological Subspecialties  
2000 NIH Stroke Scale Certification, National Stroke Association  
2000 Good Clinical Practice Certification,  
Office of Clinical Trials, Columbia University  
1993 American Board of Psychiatry and Neurology, Inc. #38657

	1990	New York State Medical License, #182231
	1989	National Board of Medical Examiners #362429
	1988	BLS/ACLS, American Heart Association
<b>PROFESSIONAL SOCIETIES</b>		
	2003	Neurocritical Care Society (Charter Member)
	2002	American Neurological Association
	1996	American Stroke Association
	1995	Society of Critical Care Medicine <i>Neuroscience Section</i>
	1990	American Academy of Neurology <i>Critical Care and Emergency Neurology Section</i>
	1988	American Medical Association

**ACADEMIC APPOINTMENTS**

*Icahn School of Medicine at Mount Sinai*

- 2014-15 Founding Director, Institute for Critical Care Medicine  
2014-16 Professor of Neurology and Neurological Surgery

*Columbia University College of Physicians & Surgeons*

- 2009-14 Professor of Neurology and Neurological Surgery  
2001-09 Associate Professor of Clinical Neurology and Neurological Surgery  
1995-01 Assistant Professor of Neurology (in Neurological Surgery)  
1994-95 Assistant Professor of Neurology  
1994 Associate in Neurology  
1992-94 Postdoctoral Clinical Fellow

**HOSPITAL  
APPOINTMENTS***Henry Ford Health System*

2017- Chair, Department of Neurology

*Mount Sinai Health System*

2015-16 Director, Neurocritical Care

2014-16 Attending Neurologist

*New York Presbyterian Hospital at  
Columbia University Medical Center*

2009-14 Attending Neurologist

2001-09 Associate Attending Neurologist

1994-14 Director, Neurological Intensive Care Unit

1994-01 Assistant Attending Neurologist

1994 Associate Neurologist

1992-94 Clinical Assistant Neurologist

**HONORS AND  
AWARDS**

2014 Lifesaver Award, American Heart Association, New York City Chapter

2011 12<sup>th</sup> Annual Terrance D. Capistrant Lecture, Saint Joseph's Hospital, HealthEast Care System, St Paul, MN

2011 International Pan Arab Critical Care Medicine Society Lifetime Achievement Award

2007 Mintz Stroke Lecturer, Department of Neurology, Mt Sinai School of Medicine, New York, NY

2006 Elected as Fellow of the American College of Critical Care Medicine

- 2005      The Fifth Miss J Mithili Oration, Third National Workshop on Critical Care Neurology, CARE Foundation and CARE Hospital, Hyderabad, India.
- 2005      Distinguished Lecturer Award, Zeenat Qureshi Stroke Research Center, University of Medicine & Dentistry of New Jersey
- 2003-     Best Doctors, New York Metropolitan Region, Neurology/Neurocritical Care, Castle & Connolly
- 2003-     Best Doctors in America
- 2003      Society of Critical Care Medicine 2003 Neuroscience Specialty Award
- 2002      Elected to American Neurological Association
- 2000      The 279th Luis E. Guerrero Memorial Lecture, University of Santo Tomas, Faculty of Medicine and Surgery, Manilla, Philippines
- 1996      Fellow, Stroke Council, American Heart Association
- 1991      Columbia P&S Class of 1992 Resident Teaching Award
- 1988      The Dr. Harold Lampert Biomedical Research Prize, Cornell University Medical College
- 1988      Public Health Research Prize, Cornell University Medical College

**RESEARCH SUPPORT**
***Active (Mount Sinai)***

- 2016-     SHINE: Stroke Hyperglycemia Insulin Network Effort  
*National Institutes of Health/NINDS*  
 Role: Local PI  
 Total Award: \$30,000 (contractual, active as of March 2016)
- 2016-     NEWTON-2: Nimodipine Microparticles for SAH  
*Edge Therapeutics*  
 Role: Steering Committee, Local PI  
 Total Award: (contractual, anticipated start date July 2016)
- 2016-     ASSENT: Novel TAFI-inhibitor thrombolytic for AIS

*Daiichi-Sankyo*

Role: Local PI

Total Award: (contractual, anticipated start date July 2016)

- 2016- STATUS: Allopregnanolone for Super Refractory Status  
Epilepticus  
*SAGE Pharmaceuticals*  
Role: Local PI  
Total Award: (contractual, active as of April 2016)

- 2016- Phase 1B Trial of rFXa for Ultra-Early Hemostasis in Acute  
ICH  
*Pfizer*  
Role: Steering committee, Local PI  
Total Award: (contractual, anticipate dstart date July 2016)

***Past (Columbia)***

- 2013-14 SHINE: Stroke Hyperglycemia Insulin Network Effort  
*National Institutes of Health/NINDS*  
Role: Local PI  
Total Award: \$300,000 (No.1 enrolling US site)

- 2012-14 ICTUS-3: Intavascular Cooling in the Treatment of Stroke  
*National Institutes of Health/NINDS*  
Role: Local PI  
Award: \$36,000 (contractual)

- 2012-13 Seizure Detection in Critically-Ill Patients  
*General Electric (Finland)*  
Role: PI  
Award: \$200,000

- 2012-14 ATACH-II Trial of Antihypertensive Therapy for Intracerebral  
Hemorrhage  
*National Institutes of Health/NINDS*  
Role: Local PI  
Award: \$148,000 (contractual, No. 3 enrolling US site)

- 2011-13 Validation of a Non-Invasive Ultrasound System for  
Estimating Intracranial Pressure  
*Non-Invasive Medical Systems, Inc.*  
Role: Principal Investigator  
Total Award: \$50,000

- 2010-12 PROTECT-3 Trial of Progesterone for Traumatic Brain Injury

*National Institutes of Health/NINDS*  
Role: Local PI  
Award: \$28,000 (contractual)

2010-12 CLEAR-3 IVH Trial of Thrombolysis for Intraventricular Hemorrhage  
*National Institutes of Health/NINDS*  
Role: Local PI  
Total award: \$36,000 (contractual)

2009-12 Neurocritical Care Multimodality Monitoring and Neuroinformatics Development Grant  
*Dana Foundation*  
Role: Principal Investigator  
Total Award: \$150,000

2007-14 New York Presbyterian Neurological Emergencies Treatment Trials (NETT) Clinical Site Hub  
*National Institutes of Health/NINDS*  
U01-NS59062-01  
Role: Principal Investigator  
Award: \$1,250,000

2007-13 Columbia SPOTRIAS Clinical Center Grant  
*National Institutes of Health/NINDS*  
P50-NS049060  
Role: Co-Investigator  
Total Award (R.S. Marshall, PI): \$1,254,499

2011-12 ALIAS-2 Trial of Albumin for Acute Ischemic Stroke  
*National Institutes of Health/NINDS*  
Role: Local PI  
Award: \$50,000 (contractual)

2009-11 Critical Care Neurology for Emergency Physician Pathway Project  
*New York State Department of Health*  
Role: Co-Mentor  
Total Award; \$100,000

2007-09 Research Fellowship in Multimodality ICU Monitoring  
*Empire Clinical Research Investigator Program*  
Role: Sponsor-Mentor  
Award: \$120,000

2007-09 STAT: Studying the Treatment of Acute Hypertension

*University of Massachusetts Outcomes Research Center*  
Role: Steering Committee, local PI  
Award: \$35,000

- 2006-08 CLEAR-2 Intraventricular Hemorrhage Thrombolysis Trial  
(FD-R-001693-06, IND 8923)  
*U.S. Food and Drug Administration*  
(D. Hanley, PI)  
Role: Co-Investigator, Executive Committee Member  
Award: \$20,700/yr (contractual)
- 2001-7 A Multi-Center Phase II/III, Double-Blind, Controlled Dose-Escalation Study to Evaluate the Efficacy and Safety of Recombinant Factor VIIa (Novo-Seven®) for Preventing Early Hematoma Growth in Acute Intracerebral Hemorrhage (IND 8893)  
*Novo Nordisk A/S, Copenhagen, Denmark*  
Role: Principal Investigator; Chairman, Steering Committee  
Total Award: \$560,000
- 2007-09 Neurocritical Care Multimodality Monitoring and Neuroinformatics Development Grant  
*Dana Foundation*  
Role: Principal Investigator  
Total Award: \$200,000
- 2003-4 Research Fellowship in Neurocritical Care Outcomes Research  
*Empire Clinical Research Investigator Program*  
Role: Sponsor-Mentor  
Award: \$60,000
- 2001-05 Investigation of the Natural History of West Nile Virus Infection in Patients with or At Risk For Progression to West Nile Virus Encephalitis and/or Myelitis  
*NIH/DMID*  
Role: Investigator  
Award: \$10,000/year (contractual)
- 2000-03 Intraventricular Hemorrhage Thrombolysis Trial (IND 8923)  
*U.S. Food and Drug Administration*  
(D. Hanley, PI)  
Role: Co-Investigator, Executive Committee Member  
Award: \$50,700/yr (contractual)

- 2001-05 A Phase III Double-Blind, Placebo-Controlled Trial of Long Term therapy of Herpes Simplex Encephalitis (HSE): An Evaluation of Valacyclovir  
*NIH/NIADS*  
Role: Investigator (5% effort)  
Award: \$25,000/yr (contractual)
- 2003-04 Fasudil SAH Clinical Trial Planning Grant  
*Berlex/Specialized Therapeutics*  
Role: Principal Investigator  
Award: \$35,000
- 2001-03 Pharmacokinetic Sub-Study: Intraventricular Hemorrhage Thrombolysis Trial (FD-R-001693-03, IND 8923)  
*U.S. Food and Drug Administration*  
Role: Co-Investigator, Executive Committee Member  
Award: \$21,141 (contractual)
- 2002-03 Clinical Trial of a Novel Water-Circulating Cooling System for Treating Medically Refractory Fever in Critically-Ill Neurologic Patients  
*Medivance, Inc.*  
Role: Principal Investigator  
Award: \$35,000
- 1998-00 Cognitive Dysfunction and Quality of Life After Subarachnoid Hemorrhage.  
*American Heart Association Grant-in-Aid Award*  
#9750432N  
Role: Principle Investigator  
Award: \$165,000
- 1999 Clinical Trial of an Air-Circulating Cooling Blanket for Treating Fever in Critically Ill Neurologic Patients  
*Augustine Medical International*  
Role: Principal Investigator  
Award: \$5,000
- 1996-97 Comparison of Acetazolamide-Activated SPECT with Transcranial Doppler Sonography for Predicting Delayed Ischemia from Vasospasm after Subarachnoid Hemorrhage.  
*Du Pont Pharma Clinical Research Award*  
Role: Principle Investigator  
Award: \$15,000
- 1995-96 Systemic Hypothermia for Acute Cerebral Infarction:

**A Pilot Study.***Columbia-Presbyterian Clinical Trials Pilot Study Award*

Role: Principle Investigator

Award: \$50,000

- 1993-95 Perilesional Ischemia in Acute Intracerebral Hemorrhage:  
A SPECT Study.

*National Stroke Association Research Fellowship Award*

Role: Principle Investigator

Award: \$60,000.

- 1987-88 GM1 Ganglioside in Experimental Focal Ischemia  
*NIH Medical Student Research Fellowship*  
Award: \$4,000

- 1985 CNS Autoantibodies in Autism  
*New York State Medical Student Research Grant*  
Award: \$3,000

**DEPARTMENTAL,  
HOSPITAL, AND  
UNIVERSITY  
COMMITTEES***Mount Sinai*

- 2015-16 Co-Chair, Cardiopulmonary Arrest Committee

- 2015-16 Neuroscience RED (reduce excess days) Committee

- 2015-16 Chair, Mount Sinai Health System Quality Leadership Council Stroke Subcommittee

*Columbia University*

- 2002-4 Executive Committee, Society of Practitioners, Columbia-Presbyterian Medical Center

- 1998-02 Chair, Multidisciplinary Neuroscience Length of Stay Committee, CUMC

- 1998-00 Department of Neurology Practice Plan Committee, CUMC

- 1996-01 Clinical Operations Council, CUMC

- 1994-97 Research Committee, Columbia-Presbyterian Practitioners Network

- 1994-97 Cardiac Arrest Committee, CUMC

- 1994-14 Inter-ICU Committee, CUMC  
1994-14 Executive Committee, Dept. of Neurology, CUMC  
1994-01 Resident Selection Committee, Dept. of Neurology, CUMC  
1991-92 Housestaff Affairs Committee, CUMC  
1990-91 Quality Assurance Committee, Dept. of Neurology, CUMC

**TEACHING ACTIVITIES*****Medical School Lectures***

- 2000-2 Guest Lecturer, Medical School Neuroscience Course,  
1st year students, Columbia P & S  
1998-00 Guest Lecturer, Human Pathophysiology Course,  
2<sup>nd</sup> year students, Columbia P & S  
1990-98 1st Year Medical Student Clinical Teaching Seminars,  
Neuroscience Course, Columbia P & S

***Neurocritical Care Fellowship Trainees******Icahn School of Medicine at Mount Sinai***

- 2016 Pavis Langkejval, MD  
2016 Kaitlin Reilly, MD  
2015-17 Anil Remini, MD  
2015-17 Javaad Ahmad, MD  
2014-16 Moshe Mizrahi, MD, Assistant Professor, Neurocritical Care  
and Comprehensive Epilepsy Programs, University of  
Cincinnati, Cincinnati, OH

***Columbia University Medical Center***

- 2013-14 Jeremy Ragland, MD, Assistant Professor, University of Texas  
at Houston, Attending neuroradiologist, Hermann Memorial  
Medical Center, Houston, TX

- 2013-14 Shouri Lahiri, MD, Assistant Professor, attending neurointensivist, Cedars-Sinai Medical Center, Los Angeles, CA
- 2013-14 Fawaz Al-Mufti, MD, Interventional Neuroradiology Fellow, Rutgers University, New Jersey Medical School
- 2012-14 Neha Danganayach, MD, Assistant Professor, attending neurointensivist, Icahn School of Medicine at Mount Sinai, New York, NY
- 2012-14 Chris Zammitt, MD, Assistant Professor, Neurocritical Care and Department of Emergency Medicine, University of Rochester, Rochester, NY
- 2012-14 Brandon Foreman, MD, Assistant Professor, Neurocritical Care and Comprehensive Epilepsy Programs, University of Cincinnati, Cincinnati, OH
- 2012-14 Barry Czeisler, MD, Assistant Professor, Attending Neurointensivist, NYU Medical Center, New York, NY
- 2012-14 Michael Crimmins, MD, Attending, Interventional Neuroradiology and Neurocritical Care, Walter Reade Medical Hospital, Bethesda, MD
- 2011-13 Alan Velander, MD, Attending neurointensivist, Swedish Medical Center, Seattle, WA
- 2011-13 Aaron Lord, MD, Assistant Professor, Attending neurointensivist, NYU Medical Center, New York, NY
- 2011-13 Andres Fernandez, MD, Assistant Professor, Attending neurointensivist, Thomas Jefferson School of Medicine, Philadelphia, PA
- 2010-12 Sachin Agarwal, MD, Assistant Professor, Columbia University, Attending neurointensivist, New York Presbyterian Hospital/Columbia, New York, NY
- 2010-12 Gunjan Parikh, MD, Assistant Professor, Departments of Neurology and Surgery, University of Maryland, Attending neurointensivist, Maryland Shock Trauma, Baltimore, MD

- 2009-12 Emily Gilmore, MD, Assistant Professor, Yale University School of Medicine, Attending neuroradiologist, Yale New Haven Medical Center, New Haven, CT
- 2009-12 Alex Choi, MD, Assistant Professor, University of Texas at Houston, Attending neuroradiologist, Hermann Memorial Medical Center, Houston, TX
- 2010-12 Gregory Kapinos, MD, Assistant Professor, Hofstra School of Medicine, Attending neuroradiologist, North Shore University Hospital, Manhasset, NY
- 2009-12 Santiago Ortega, MD, Assistant Clinical Professor, Interventional Neuroradiology and Neurocritical Care, University of Iowa, Iowa City, IA
- 2009-11 Cappi Lay, MD, Assistant Professor, Departments of Emergency Medicine and Neurosurgery (Neurocritical Care), Mount Sinai, New York
- 2008-11 Guillermo Linares, MD, Interventional Neuroradiology and Critical Care Attending, Temple University School of Medicine, Philadelphia, PA
- 2008-11 Viktor Szeder, MD, PhD, Assistant Professor, Interventional Neuroradiology, Department of Neuroradiology, David Geffen School of Medicine, University of California, Los Angeles, California
- 2008-10 Khalid Hanafy, MD, Attending Neurointensivist, Assistant Professor, Beth Israel Deaconess Hospital, Harvard Medical School, Boston, MA
- 2008-10 Matthew Vibbert, MD, Attending Neurointensivist, Assistant Professor, Thomas Jefferson School of Medicine, Philadelphia, PA
- 2008-10 Rishi Malhotra, MD, Attending Neurointensivist, Assistant Professor, Albert Einstein College of Medicine, Bronx, NY
- 2007-08 David Seder, MD. Director of Neurocritical Care, Assistant Professor, Tufts University School of Medicine, Maine Medical Center, Portland, ME
- 2007-08 Jan Claassen, MD. Director, Neuro-ICU, Associate Professor, Columbia University Medical Center, New York, NY

- 2006-08 Errol Gordon, MD. Current position: Attending neurointensivist, Director, Neuro-ICU, Assistant Professor, Department of Neurosurgery, Mount Sinai School of Medicine, New York, NY
- 2005-08 Fred Rincon, MD. Attending, Assistant Professor, Neurocritical Care, Jefferson Medical College, Philadelphia, PA
- 2006-07 Michael Moussoultas, MD. Attending neurointensivist, Capital Health, Trenton, NJ
- 2004-07 Richard Temes, MD. Director, Neurocritical Care, Northwell Health System, Manhasset, NY
- 2004-06 Katja E. Wartenberg, MD. Attending Neurointensivist, Martin Luther University, Halle-Wittenberg, Germany
- 2004-06 Jennifer Frontera, MD. Co-Director, Neuro-ICU, Associate Professor, Department of Neurology and Neurocritical Care, Cleveland Clinic, Cleveland, OH
- 2002-04 Nazli (Sophia) Janjua, MD. Neurointerventional Radiologist, Lakewood Regional Medical Center, Lakewood, CA
- 2002-04 Andrew Naidech, MD, MPH. Director, Neurological Intensive Care Unit, Assistant Professor, Departments of Neurology and Anesthesiology, Northwestern Medical Center, Chicago, IL
- 2001-02 Brian-Fred Fitzsimmons, MD. Attending Physician, Interventional Neuroradiology, Assistant Professor, Departments of Radiology and Neurology, University of Wisconsin Medical Center, Milwaukee, WI
- 2001-02 Dileep Yavagal, MD. Attending Interventional Radiologist and Neurointensivist, Assistant Professor, Department of Neurology, University of Miami, Miller School of Medicine, Miami, FL.
- 2000-01 Adam Mednick, MD. Attending Neurologist, St. Raphaels Hospital, New Haven, CT
- 1999-00 Axel Rosengart, MD. Director, Neurological Intensive Care Unit, Associate Professor, Departments of Neurology and Neurosurgery, Cedars Sinai Medical Centaer, Los Angeles, CA

- 1999-00 Lyle Dennis, MD. Director, Neurology, Good Samaritan Hospital, Suffern, NY
- 1998-99 Mark Gorman, MD. Attending Neurologist, Cerebrovascular and Critical Care Neurology, Assistant Professor, Department of Neurology, University of Vermont Medical Center, Burlington, VT.
- 1997-99 Christopher Commichau, MD. Director, Stroke and Critical Care, Neurology Residency Director and Associate Professor, Departments of Neurology and Neurosurgery, University of Vermont Medical Center, Burlington, VT.
- 1996-97 Gary L. Bernardini, MD, PhD. Chairman, Neurology; Stroke and Neurocritical Care; Associate Professor, Weil Cornell Medical School, NY, NY
- 1995-96 Rupendra Swarup, MD. Director, Neurological Intensive Care Unit, Roosevelt Hospital, New York, NY.
- 1994-96 Carole E. Thomas, MD. Private practice neurologist, Princeton, NJ.

***Neurocritical Care Research Fellows***

- 2014-16 Charles Francoeur, MD. Interim Position: Attending Intensivist, University of Montreal, Canada.
- 2013-14 Sureerat Suwatcharangkoon, MD. Interim Position: Division of Neurology, Department of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- 2012-14 Gian Marco DeMarchis, MD. Interim Position: Neurology Clinic, Inselspital Bern, Bern, Switzerland.
- 2012-13 Deborah Pugin, MD. Attending Inyensivist, Geneva University Hospital, Geneva, Switzerland
- 2011-12 Sang-Beom Jeon, MD, PhD. Interim Position: Stroke and Neurocritical Care, Asan Medical Center, Seoul, Korea
- 2011-12 Andres Reccius, MD, MSc. Interim Position: Fellow in Intensive Care Medicine, Clinica Almava, Universidad del Desarrollo, Santiago, Chile

- 2011-12 Younsuk Lee, MD, PhD. Interim Position: Professor, Stroke and Neurocritical Care, Department of Neurology, Dongsuk University, Korea
- 2011 Min Li, PhD. Interim Position: Department of Neurosurgery, Tangdu Hospital, The Fourth Military Medical University, Xi'an, China
- 2009-11 Sang-Bae Ko, MD. Interim Position: Clinical Assistant Professor of Medicine, Seoul National Hospital, Seoul, Korea
- 2009-11 Raimund Helbok, MD. Current Position: Assistant Professor, Clinical Department of Neurology, Neurological Intensive Care Unit, Medical University of Innsbruck, Innsbruck, Austria
- 2007-08 Mellanie Springer, BA, Albert Einstein College of Medicine Senior Research Fellowship
- 2007-09 Pedro Kurtz, MD. Current Position: Staff Physician, IntensiveCare Unit, Casa de Saúde São Jose, Rio de Janeiro, Brazil
- 2007-10 Emmanuel Carrerra, MD. Current Position: Assistant Professor, Department of Neurology, CHUV Hospital, Lausanne, Switzerland
- 2007-11 Mauro Oddo, MD. Current Position: Assistant Professor, Medical Intensive Care Unit, CHUV Hospital, Lausanne, Switzerland.
- 2006-07 Manuel Buitrago Blanco, MD. Current position: Assistant Professor, UCLA Geffen School of Medicine.
- 2000-03 Jan Claassen, MD. Current position: Attending Neurointensivist, Director, Neuro-ICU, Columbia University Medical Center, New York, NY.
- 1998-99 Johnny Lokin, MD. Current position: Attending Neurointensivist, University of Santo Tomas, Faculty of Medicine and Surgery, Manilla, Philippines

*Clinical Neuropsychology PhD Thesis Supervisory Committee, The Graduate School and University Center, City University of New York*

2006 Luba Nakhutina, PhD. Thesis title: "The Effect of Educational Attainment on Cognitive Performance and Recovery in Patients with Subarachnoid Hemorrhage"

2006 Shelly Peery, PhD. Thesis title: "Recovery of Neuropsychological Functioning after Subarachnoid Hemorrhage"

**PROFESSIONAL ACTIVITIES**

*National Institutes of Health*

2011 Co-chair, Hemorrhage Section, *NINDS Stroke Progress Review Group (SPRG)*

2009 NINDS Stroke Common Data Elements Working Group

2006 Co-chair, Hemorrhage Section, *NINDS Stroke Progress Review Group (SPRG)*

2003-7 CDIN Study Section (ZRG1 BDCN-3)  
*NIH Center for Scientific Review*

2003 Advisory Panel, Priorities for Clinical Research in the Treatment of Acute, Non-Traumatic Intracerebral Hemorrhage, *NIH/NINDS*

2004 Advisory Panel, Emergency Neurology Clinical Trials Network, *NIH/NINDS*

2004 Presenter, *Brain Attack Coalition*, "Logistical and Regulatory Barriers to Acute Stroke Research"

*American Heart/Stroke Association*

2012 Member, AHA NYC Stroke Task Force

2012 Member, AHA National Stroke Performance Measures Oversight Committee

2011 Peer reviewer, *Guidelines for the Management of Aneurysmal Subarachnoid Hemorrhage*

2011 Stroke Performance Measures Oversight Committee

2009 Peer reviewer, *Metrics for Measuring Quality of Care in Comprehensive Stroke Centers*

- 2007-09 Cerebrovascular Early Career Development Committee
- 2006-08 Brain One Study Section
- 2007 Peer reviewer, *Guidelines for the Management of Spontaneous Intracerebral Hemorrhage*
- 2006- Abstract reviewer, AHA International Stroke Conference, 2006, 2007, 2009

***American Academy of Neurology***

- 2010-12 Course Director, *Acute Stroke Alert Skills Workshop*  
American Academy of Neurology Annual Meeting
- 2001-8 Member and Chair of Science Subcommittee, Executive Committee, Section of Critical Care and Emergency Neurology
- 1999- Abstract reviewer, Critical Care/Emergency Neurology, AAN Annual Meeting
- 1999-02 Course Director, *Controversies in Critical Care*  
American Academy of Neurology Annual Meeting
- 1994- Member, Critical Care and Emergency Neurology Section

***Neurocritical Care Society***

*Officer Positions*

- 2009-11 President
- 2007-9 Vice President
- 2005-7 Treasurer
- 2003-13 Board of Directors
- 2002 Acting President

*Committees*

- 2016- NCS Fundraising Task Force

2011-13 Chair, Nominating Committee

2011-13 Chair, Liason Committee

2004-7 Chair, Fundraising Committee

2003-13 Executive Committee

2003-13 Board of Directors

2010-15 Research Committee

2002-3 Co-Chairman, Communications Committee

2002 Founding Committee

*Annual Meeting Program Committee:*

2003 Inaugural Meeting, Phoenix AZ, February 15<sup>th</sup> and 16<sup>th</sup>  
2004 2nd Annual Meeting, San Diego CA, February 6<sup>th</sup> and 7<sup>th</sup>,  
2005 3rd Annual Meeting, Scottsdale, AZ, February 25-27,  
2008 Chair, Scientific Program Committee, 6th Annual Meeting,  
Miami, FL, October 23-25  
2009 Chair, Scientific Program Committee, 7th Annual Meeting,  
New Orleans, LA, November 11-14

***Society of Critical Care Medicine***

2001- Abstract reviewer, Neurosciences Section, SCCM Annual Meeting

2001- Professor's Walk Rounds, Neuroscience Poster Session,  
Annual Meeting: 2001, 2004, 2008

***European Society of Intensive Care Medicine***

2007 Abstract reviewer  
*21<sup>st</sup> Annual Congress*

***Brain Trauma Foundation***

2014 External Peer Reviewer, *Guidelines for the Management of Severe Traumatic Brain Injury, 4<sup>th</sup> Edition*

***Fire Department of New York***

2009-11 New York City Fire Department Cardiovascular Quality Assurance Committee

***Greater New York Hospital Association***

2007- Greater New York Critical Care Leadership Council

***New York State Task Force of Life and the Law***

2010 Expert Panel of Brain Death Guidelines

***World Congress of Neurology***

2005 Abstract reviewer (cerebrovascular disease), WCN2005

***Journal/Editorial Activities***

*Editorial Board*

2013- International Journal of Stroke

2010- Therapeutic Hypothermia

2004-10 Neurocritical Care

*Co-Founder and Associate Editor*

2004-9 Neurocritical Care

2015- Neurocritical Care

*Section Editor*

2011-13 Current Opinion in Critical Care, Neuroscience Section

2006-11 Stroke (Critical Care)

2000- Current Neurology and Neuroscience Reports (Critical Care)

*Contributing Editor*

2000-5 Journal Watch: Neurology

*Ad Hoc Reviewer*

2016 Emergency Medicine Practice

2016 Annals of Intensive Care

2015 PLOS ONE

2015 JAMA

2014 British Medical Journal

2011	Nature Reviews Neurology
2011	European Journal of Neurology
2009	Resuscitation
2009	Lancet Neurology
2009	Critical Care
2009	Clinical Neurology and Neurosurgery
2007	Circulation
2007	The Journal of Neuropsychiatry and Clinical Neurosciences
2007	Intensive Care Medicine
2006	Journal of Neurology Neurosurgery and Psychiatry
2006	The Lancet
2006	Pharmacy & Therapeutics
2006	Canadian Journal of Neurological Sciences
2006	Metabolism
2005	Cerebrovascular Diseases
2003	Neurocritical Care
2003	Critical Care Medicine
2003	Journal of Intensive Care Medicine
2003	Journal of Critical Care
2003	Anesthesiology
2003	International Journal of Cardiology
2002	Annals of Neurology
2001	Archives of Neurology
2001	Clinical Endocrinology
2000	Journal of Cerebral Blood Flow and Metabolism
1999	Journal of the Neurological Sciences
1999	Neurosurgery
1999	Stroke
1998	Journal of Neurosurgical Anesthesiology
1996	Epilepsia
1996	Journal of Intensive Care
1996	Neurology
1995	New England Journal of Medicine

***American Board of Neurological Surgery***

1995-96    Contributor, Board Examination (Neurocritical Care)  
*American Board of Neurological Surgery*

***Invited External Grant Review and Study Sections***

2011    Ad hoc reviewer, Section on muscle inflammatory diseases and diseases of the neuromuscular junction, *Association Française contre les Myopathies*

- 2009      External reviewer, Randomized Controlled Trials panel A (RNA), *Canadian Institute of Health Research*,
- 2009      Comparative Effectiveness Review of recombinant activated factor VIIa, *US Agency for Health Care Quality and Research*
- 2012      NASA Smart Technology Crew Health Study Section.  
*National Aeronautics and Space Administration*
- 2012      External reviewer, Dutch Organization for Health Research and Development (ZonMw)

***Consultant to Private Enterprise***

- 1998-07     Scientific Consultant, *NovoNordisk A/C, Copenhagen, Denmark*
- 1999-07     Scientific Advisory Board, *Radiant Medical, Redwood City, CA* (hypothermia technology)
- 2001-03     Scientific Advisory Board, *Seacoast Technologies, Hampton Falls, NH* (hypothermia technology)
- 2002-03     Haemostasis.com Advisory Board, *NovoNordisk A/C, Copenhagen, Denmark*
- 2003-04     Scientific Consultant, *Specialized Therapeutics, Berlex/Schering AG, Princeton, NJ*
- 2003-07     Scientific Consultant, *CoAxia, Inc., Minneapolis, MN*
- 2003-12     Scientific Consultant, *Medivance Inc., Louisville, CO*
- 2002-        Scientific Consultant, *Actelion Pharmaceuticals, Allschwil, Switzerland*
- 2004-6        Scientific Advisory Board, *Remedy Pharmaceuticals, New York, NY*
- 2006-7        Scientific Consultant, *BrainZ Instruments, Auckland, New Zealand*
- 2010-12      Medical Safety Consultant, *Novartis Pharmaceuticals, Cambridge, MA*

- 2010- Scientific Advisory Board, *Orsan Technologies, Tel Aviv, Israel*
- 2010-12 Scientific Consultant, *General Electric Healthcare, Helsinki, Finland*
- 2011-14 Scientific Consultant, *Sanofi-Aventis, Paris, France*
- 2011- Scientific Advisory Board, *Neuroptics, Inc., Irvine, CA*
- 2012- Scientific Consultant, *Bard Medical, Louisville, CO*
- 2012- Scientific Consultant, *Pfizer, New York, NY*
- 2014- Scientific Consultant, *Stryker Neurovascular*
- 2014- Scientific Consultant, *Medtronic/Covidien Neurovascular*
- 2015- Scientific Advisory Board, *Cryoethermic Systems, Cleveland, OH*
- 2016- Scientific Consultant, *Sage Pharmaceuticals, Boston, MA*

***Consultant to Academia***

- 2003 Neurocritical Care Consultant, *Hahnemann-MCP School of Medicine, Philadelphia, PA*
- 2005 Neurocritical Care Consultant, *SUNY Stony Brook, Stony Brook, NY*
- 2009 Neurocritical Care Consultant, *University of North Carolina School of Medicine, Chapel Hill, NC*

***Invited Panels***

- 1999 Tirilizad SAH Evaluation Panel, *Upjohn-Pharmacia*
- 2001 NovoSeven Advisory Panel, *NovoNordisk A/S, Frankfurt, Germany*
- 2002 International Advisory Board for the Development of Fasudil, New York, NY, *Specialized Therapeutics, Berlex/Schering AG*

- 2002 First International NovoSeven CNS Advisory Panel, San Francisco, CA, *NovoNordisk A/S*,
- 2003 Precedex Multidisciplinary Advisory Panel, Palm Springs, CA, *Abbot Laboratories*
- 2003 Nicardipine Advisory Panel, New York, NY, *ESP Pharma*
- 2004 Second International NovoSeven CNS Advisory Panel, San Francisco, CA, *Novo Nordisk*
- 2004 Clevidipine Advisory Panel, New York, NY, *The Medicines Company*.
- 2005 rFVIIa Research and Development Advisory Panel, New York, NY, *Bayer Biologics, Inc.*
- 2005 3rd International NovoSeven CNS Advisory Panel, Sydney, Australia, *Novo Nordisk A/C*
- 2005 Co-Chair, Vasoactive Therapy Curriculum Planning Advisory Board, New York, NY, *Discovery Institute of Medical Education and PDL/ ESP Pharma*
- 2005 Co-Chair, Nicardipine Advisory Panel, Washington, DC, *PDL/ESP Pharma*
- 2006 Clevidipine Expert Advisory Panel, Montreal, Canada, *The Medicines Company*
- 2006 Systems for Stroke Care Advisory Board, New York, NY, *Novo Nordisk*
- 2007 4th International NovoSeven CNS Advisory Panel, Capetown, South Africa, *Novo Nordisk*
- 2007 Co-Chair, Cardene IV Advisory Board, San Francisco, CA *PDL BioPharma*
- 2008 Worldwide 3C Summitt: Cleviprex Council on Control, New York, NY, *The Medicines Company*
- 2009 Co-Chair, Actelion North American Clazostentan Advisory Board, Chicago, IL, *Actelion Pharmaceuticals*

- 2010 Blood Pressure in Stroke Outcomes, Short Hills, NJ , *The Medicines Company*
- 2010 Cleviprex Partnership Summit, Miami, FL, *The Medicines Company*
- 2010 Perspectives in the Global Management of Stroke, Paris, France, *Sanofi-Aventis*
- 2010 North American Healthcare Technology Advisory Panel, New York, NY, *Sanofi-Aventis*
- 2011 Brevibloc Cardiovascular Advisory Panel, Short Hills, NJ, *Baxter Healthcare*
- 2011 Vaprisol Advisory Board, Hoboken, NJ, *Astellas Pharmaceuticals*
- 2011 Cleviprex Advisory Board, Parsippany, NJ, *The Medicines Company*
- 2011 Hypothermia Advisory Board, Denver CO, *Medicance/CR Bard*
- 2012 International Stroke Advisory Board, Miami FL, *Sanofi-Aventis*
- 2012 2012 TEG Expert Advisors Meeting, Chicago, IL  
*Haemonetics Corporation*
- 2012 Beriplex National Advisory Board, Philadelphia, PA  
*CSL Behring*
- 2013 Refractory Status Epilepticus Advisory Panel, Boston, MA  
*SAGE Therapeutics*
- 2013 Factor Xa ICH Advisory Panel, New York, NY  
*Pfizer*
- 2015 Therapeutic Temperature Modulation Expert Panel, *Bard Medical, New York, NY*
- 2015 UROS Cather Expert Panel, *Bard Medical, New York, NY*

***Educational Programs and Conferences***

- 1999- Course Director, *New York Symposium on Neurological Emergencies and Neurocritical Care*  
1. New York Marriott Marquis, October 16, 1999  
2. New York Academy of Medicine, May 19, 2001  
3. New York Academy of Medicine, May 3-5, 2006  
4. New York Academy of Medicine, May 23-25, 2007  
5. New York Academy of Medicine, June 4-6, 2008  
6. New York Academy of Medicine, June 3-5, 2009  
7. New York Academy of Medicine, June 1-4, 2010  
8. New York Academy of Medicine, June 14-17, 2011  
9. New York Academy of Medicine, June 12-15, 2012  
10. New York Academy of Medicine, June 11-14, 2013  
11. New York Academy of Medicine, June 10-13, 2014  
12. New York Academy of Medicine, June 7-10, 2016
- 2007 Course Co-Director, *NYC Project Hypothermia*. The Greater New York Hospital Association, New York, NY, December 15, 2007
- 2008 Course Co-Director, *Monitoring Brain Chemistry During Neurointensive Care: State of the Art*. Sponsored by Columbia University and the Karolinska Institute, Scandinavia House, New York, NY, February 29, 2008.
- 2008 Steering Committee, *Therapeutic Temperature Management Conference*, Barcelona, Spain, October 1-4, 2008
- Clinical Trials**
- 2001-7 Chair, Steering Committee, and Principal Investigator, The NovoSeven ICH Trials and FAST Trial, Sponsor: NovoNordisk A/C
- 2000-6 Executive Committee, *Intraventricular Hemorrhage Thrombolysis Trial (Clear-IVH)*. PI: D. Hanley, MD; Sponsor: FDA
- 2002-7 External Safety Monitor, *Phase I Safety Study of Human Serum Albumin for Acute Ischemic Stroke (ALIAS)*. PI: M. Ginsberg, MD; Sponsor: NINDS/NIH
- 2002-12 Steering Committee, *Clazosentan for the Prevention of Cerebral Vasospasm after Aneurysmal Subarachnoid*

*Hemorrhage (CONSCIOUS)*, Actelion Pharmaceuticals,  
Allschwil, Switzerland

- 2005-10 External Safety Monitor, *Phase I Study of Intravenous Thrombolysis plus Hypothermia for Acute Treatment of Ischemic Stroke (ICTuS)*, PI: P. Lyden, MD; Sponsor: NIH-SPOTRIAS
- 2007-9 Steering Committee, STAT Registry (Studying the Treatment of Acute Hypertension), Center for Outcomes Research, University of Massachusetts
- 2009-10 Steering Committee, *Cool-Arrest Trial*. Sponsor: Zoll Medical Corporation, Inc., Chelmsford, MA
- 2013- Steering Committee, *NEWTON: Nimovent for SAH Trial*. Sponsor: Edge Therapeutics
- 2014- Steering Committee, REACT: Reversal of Vasospasm with Clazosentan. Sponsor: Actelion Pharmaceuticals.

***Speakers Bureau***

- 2001-3 Brain Trauma Foundation, New York, NY
- 2001-3 AstraZeneca, LP
- 2002-3 Boehringer Ingelheim
- 2003-8 ESP Pharma/PDL Biopharma
- 2003-7 NovoNordisk
- 2007-10 Astellas Pharmaceuticals

**INVITED LECTURES AT INTERNATIONAL MEETINGS**

*22nd Annual Meeting of the Philippine Neurological Association, Baguio City, Philippines, November 16-17, 2000.*

- Secondary Prevention of Stroke. In: Lunchtime Symposium  
New Concepts in the Management of Increased Intracranial Pressure. In: Plenary Session

*22<sup>nd</sup> International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 20-22, 2002*

Status Epilepticus. In: Neurological Crises  
Subarachnoid Hemorrhage. In: Limiting Brain damage  
Management of the Organ Donor. Plenary Lecture  
Intracerebral Hemorrhage. Plenary Lecture.  
Intracranial Hypertension: a Stepwise Protocol. In: Head Trauma.

*NovoSeven: Treatment of Critical Bleeding in the Future ICU. NovoNordisk Satellite Symposium to the 22<sup>nd</sup> International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 20, 2002*

Intracerebral Hemorrhage: Natural History and Rationale of Ultra-Early Hemostatic Therapy

*30<sup>th</sup> Annual Meeting of the Japanese Association of Acute Medicine, Saporro, Japan, October 11, 2002.*

Critical Care of Intracerebral Hemorrhage

*23<sup>rd</sup> International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 21, 2003*

Myasthenic Crisis. In: Neurologic Crises  
Advances in the Management of Cerebral Hemorrhage. In: Neurologic Crises  
Severe Head Injury: ICU Management. In: CNS Injury  
Neurogenic Stunned Myocardium. In: Neurological Catastrophies

*Recombinant Activated Coagulation Factor VIIa: Therapeutic Possibilities. Presented at the Network for the Advancement of Transfusion Alternatives 4<sup>th</sup> Annual Symposium, London, England, April 15, 2003.*

Recombinant Factor VIIa: Potential uses in Non-Surgical Settings

*21<sup>st</sup> Meeting of the International Society of Cerebral Blood Flow and Metabolism - Brain '03. Calgary, Canada, July 2, 2003.*

Potential Role of rFVIIa in ICH Treatment. In: Controversies in the Management of Intracerebral Hemorrhage

*Neurological Emergencies. Presented at the Catholic University of Leuven Medical Center, Leuven, Belgium, September 26, 2003.*

Critical Care of Intracerebral Hemorrhage

*16<sup>th</sup> Annual Congress of the European Society of Intensive Care Medicine, Amsterdam, The Netherlands, October 8, 2003.*

Subarachnoid Hemorrhage. In: An Evidence Based Approach for Neurocritical Care Patients.

*24<sup>th</sup> International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, April 1-4, 2004.*

Acute Bacterial Meningitis. In: Severe Infections  
Intracranial Bleeding. rFVIIa. In: Bleeding Complications  
Seizures. In: Emergencies  
Critical Illness Neuromyopathy. In: Neurologic Crises  
Blood Pressure Management. In: Cerebral Injury.

*International Symposium and Videoconference on Myasthenia Gravis. Hosted by the Myasthenia Gravis Foundation of Argentina, Buenos Aires, Argentina, May 20, 2004.*  
Myasthenic Crisis

*39<sup>th</sup> Annual Scientific Meeting of the Canadian Congress of Neurological Sciences, Calgary, AB, June 10, 2004.*

The Potential Role of rFVIIa in ICH Treatment. In: Controversies in the Management of Intracerebral Hemorrhage.

*The Medical Management of Intracerebral Hemorrhage: Role of Noninvasive Therapy. Satellite Symposium, World Stroke Congress, Vancouver, Canada, June 24, 2004.*

Medical Management of Spontaneous Intracerebral Hemorrhage

*World Stroke Congress, Vancouver, Canada, June 24-26, 2004.*

ICH: Stabilizing the Initial Bleed. In: Intracerebral Hemorrhage.

Recombinant Factor VIIa for Acute Intracerebral Hemorrhage. In: Late Breaking News and Clinical Trials.

*The 3rd Annual Joint Meeting of the European and Romanian Societies of Anesthesiology and Pain Therapy and the Romanian Society of Anesthesia and Intensive Care, Bucharest, Romania, September 16<sup>t</sup>, 2004.*

Recombinant Factor VIIa for Acute Intracerebral Hemorrhage

*25<sup>th</sup> International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 22-25, 2005.*

Therapeutic Hypothermia. Tutorial.

Continuous EEG Monitoring. In: Neuromonitoring.

Early Hemostatic Therapy in Intracerebral Hemorrhage. In: Cerebrovascular Accidents.

Optimizing Blood Pressure in Neurological Emergencies. In: Cerebral Blood Flow.

*8<sup>th</sup> Novo Nordisk Symposium on Haemostasis Management. Copenhagen, Denmark, May 13, 2005.*

Effective Hemostatic Therapy for Intracerebral Hemorrhage

*Third National Workshop on Critical Care Neurology, CARE Foundation and CARE Hospital, Hyderabad, India, March 25-27, 2005.*

Ultra-Emergency Treatment of Hemorrhagic Stroke. Keynote Lecture.

Management of Brain Edema and ICP in Stroke Patients

Hypothermia for Cardiac Arrest: Pro.

ICP Monitoring

### Subarachnoid Hemorrhage

*Managing Uncontrolled Hemorrhage. Satellite Symposium of the Canadian Anesthesiologists' Society 61<sup>st</sup> Annual Meeting, Vancouver, CA, June 18, 2005.*

Recombinant Factor VIIa for Acute Intracerebral Hemorrhage

*3<sup>rd</sup> International Symposium on Intensive Care and Emergency Medicine for Latin America, Sao Paulo, Brazil, June 22, 2005.*

Novel Therapies for Intracerebral Hemorrhage

Poor Grade Aneurysmal Subarachnoid Hemorrhage.

Recombinant Factor VIIa: Effective Hemostatic Therapy for Intracerebral Hemorrhage.

In: Recombinant Factor VIIa in Intensive Care.

*Tiantan International Stroke Conference, Beijing, China, July 23-25<sup>rd</sup>, 2005.*

Advances in the Medical Management of Intracerebral Hemorrhage. In: Opening Lecture Session.

Recombinant Factor VIIa in ICH: Current Results and Future Perspective

*Shanghai Neurological Society, Shanghai, China, July 26, 2005.*

Medical Management of Intracerebral Hemorrhage.

*18<sup>th</sup> Annual Congress of the European Society of Intensive Care Medicine, Amsterdam, Netherlands, September 25-28, 2005.*

Subarachnoid Hemorrhage

Hypothermia: Future Perspectives

Sodium Management

*Japanese Novo Seven ICH Trialists Investigators Meeting, Yokohama, Japan, October 7, 2005.*

Hemostatic Therapy for ICH

*XVIIIth World Congress of Neurology, Sydney, Australia, November 5-8, 2005*

Multimodality Monitoring. In: Trauma Postgraduate Course

Management of Intracerebral Hemorrhage. In: Stroke Main Theme.

Medical Management of Intracerebral Hemorrhage. In: Intracerebral Hemorrhage – Further Knowledge and Future Treatment

Treatment of Hypoxic-Ischemic Brain Injury. In: Neurocritical Care.

*2<sup>nd</sup> Dubai NovoSeven Grand Symposium. Dubai, United Arab Emirates, January 19, 2006.*

ICH Hemostasis

*Emergency and Critical Care Medicine: The Cutting Edge. Fajardo, Puerto Rico, February 9, 2006.*

CVA: New Treatments

Status Epilepticus: New Drugs

*International Neurotrauma Symposium, Rotterdam, The Netherlands, May 24<sup>th</sup>, 2006.*

## Hemostatic Therapy for Acute Intracerebral Hemorrhage

*3rd Annual Meeting of the Turkish Stroke Society, Antalya, Turkey, June 10, 2006*

Medical Management of Intracerebral Hemorrhage

Critical Care Management of Acute Stroke

*XIVth Annual Meeting of the Indian Academy of Neurology, Bangalore, India, October 6, 2006.*

Management of Intracerebral Hemorrhage.

*New Approaches to Managing and Monitoring Excessive Bleeding. Taipei, Taiwan, October 7, 2006.*

Intracerebral Hemorrhage: New Treatment Options

*3<sup>rd</sup> Bangkok Symposium on Neurosonology and Stroke and the 5<sup>th</sup> Scientific Meeting of the Asian Chapter of Neurosonology Research Group of the World Federation of Neurology, Bangkok, Thailand, October 10, 2006.*

Thrombolyis and Beyond

Medical and Surgical Intervention in Hemorrhagic Stroke

*Therapeutic Advances in Intracerebral Hemorrhage Management. Korean Stroke Society, Seoul, Korea, October 11, 2006.*

The Role of rFVIIa in Intracerebral Hemorrhage

*Joint World Congress on Stroke, Capetown, South Africa, October 27, 2006.*

Recombinant Activated factor VII for Acute Intracerebral Hemorrhage: Impact of Timing of Treatment

*27<sup>th</sup> International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 28-30, 2007.*

Updated Traumatic Brain Injury Guidelines. In: Severe Brain Injury Hypertonic Saline Solutions: Con. In: Pro-Con Debates.

How to Induce Hypothermia. In: Benefit and Harm of Hypothermia.

The Heart. In: Brain and Organ Interactions

Myasthenic Crisis. In: Neurologic Crises and Management.

Continuous EEG in the ICU. In: Neurologic Crises and Management  
Stroke. In: Early Resuscitation.

Place of Hemostatic Therapy in Intracerebral Hemorrhage. In: Hemorrhagic Stroke.

*16<sup>th</sup> European Stroke Conference, Glasgow, Scotland, May 15, 2007*

Randomized, placebo-controlled, double blind phase III trial of rVIIa efficacy in acute intracerebral hemorrhage: the FAST trial.

*1<sup>st</sup> International Symposium: Preserving the Brain in Neurological Emergencies, Rome, Italy, June 13-15, 2007*

Fever Control in Neurological Injury

SAH and ICH: Therapeutic Options

SAH and ICH: The Role of Hypothermia  
Hypothermia for Ischemic Stroke

*17<sup>th</sup> Annual Meeting of the European Society of Neurology, Rhodes, Greece, June 16-19, 2007*  
Intracerebral Hemorrhage. In: Neurological Intensive Care Tutorial Session

*4th International Symposium on Intensive Care and Emergency Medicine for Latin America, Sao Paulo, Brazil, June 20-22, 2007.*

- Critical Care of Subarachnoid Hemorrhage
- Brain Tissue Oxygen and Microdialysis: It's Not Just ICP Anymore
- Severe Traumatic Brain Injury
- Therapeutic Hypothermia in the ICU: Problems and Opportunites

*Neurocritical Care. The Royal Society of Medicine in Association with The Neurocritical Care Special Interest Group of The Association of British Neurologists, London, UK, October 15, 2007*

- Management of Acute Cerebral Haemorrhage

*Stroke Society of Australasia Annual Scientific Meeting 2007, Perth, Australia, October 17-19, 2007*

- Intracranial Hemorrhage. Keynote Address.
- Neurocritical Care. Keynote Address.

*Critical Care Canada Forum 2007, Toronto, Canada, November 2007*

- Management of Coma Using Microdialysis and Tissue PO2. In: Caring for the Brain-Injured Patient
- Temperature Control in Brain Injury: How and Why. In; Manipulating Temperature: Protecting the Brain?
- Contemporary CNS Monitoring. In: Resident's Day – 2007.

*Therapeutic Temperature Management Congress, Cancun, Mexico, December 5-7, 2007*

- Hypothermia Treatment Requires Paralysis: Pro
- Hyperthermia and Fever Control
- The Downside: Side Effects of Hypothermia
- Space-Occupying MCA Infarction: Therapeutic Options

*EuroNeuro 2008, Maastricht, The Netherlands, January 18, 2008*

- Fever in the Neuro-ICU: A Deleterious and Avoidable Secondary Insult?

*Emergency and Critical Care Medicine: The Cutting Edge. Fajardo, Puerto Rico, February 12, 2008.*

- Optimizing BP in Neuro-Emergencies
- Status Epilepticus: New Drugs
- Hypothermia for Cardiac Arrest

*28<sup>th</sup> International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 18-20, 2008.*

Cerebral Resuscitation. In: CPR  
Sodium Control. In: Cerebral Protection  
Other Options. In: Cerebral Protection  
Medical Therapy. In: Intracerebral Hemorrhage  
Multimodality Monitoring. In: Neuromonitoring  
Control of BP in Acute Stroke. In: Emergencies

*21<sup>st</sup> Annual Congress of the European Society of Intensive Care Medicine, Lisbon, Portugal, September 21-24, 2008*

Vasospasm: Pathogenesis and Diagnosis. In: Subarachnoid Hemorrhage  
Horizon Scanning: New Interventions in SAH. In: Subarachnoid Hemorrhage  
Autonomic Dysfunction in Critical Illness. In: Neurological Dysfunction  
Coma, Vegetative State, and Minimally Conscious State. In: Neurological Dysfunction  
Glycemia. In: Monitoring-Driven Treatment Could Improve Outcome in Severe Brain Damage?  
Conscious-2: Clazostentan to Overcome Neurological Ischemia and Infarction after Subarachnoid hemorrhage. In: Advances in Neurocritical Care

*Therapeutic Temperature Management Congress, Barcelona, Spain, October 1-4, 2008*

Fever Control in Neurological Injury  
Stroke and Subarachnoid hemorrhage: Therapeutic Options  
Hypothermia for Stroke: The ICTuS-L Trial

*The 3<sup>rd</sup> Pan-Arab Critical Care Medicine Congress, in conjunction with the 4<sup>th</sup> Kuwait Critical Care Conference, November 4-8, 2008*

Intracerebral Hemorrhage  
Critical Care Management of Stroke  
Traumatic Brain injury  
Management of ICP  
Multimodality Monitoring  
Intensivists Manage Head Injury Better than Neurosurgeons: Pro

*Critical Care Canada Forum 2008, Toronto, Canada, November 11, 2008*

Neuromonitoring: An Overview  
Preventing Secondary Injury in SAH

*The Lancet Asia Medical Forum 2008: Stroke in Asia, Beijing, China, November 14-15, 2008*

Intracerebral Hemorrhage

*Philippine Neurological Association 30<sup>th</sup> Annual Convention, Manila, Philippines, November 19-22, 2008*

Myasthenic Crisis  
Inside the Black Box: Multimodality Monitoring in Neurocritical Care

*4<sup>th</sup> International Critical Care Symposium: Expanded Horizons, Catholic University of Santiago, Santiago, Chile, July 2-4, 2009*

Acute Stroke: Thrombolysis and Beyond

Critical Care of SAH

The Black Box: Illuminating the Comatose Human Brain

Update on Hypothermia after TBI

*Intracerebral Hemorrhage Update 2009, Rigshospitalet Neurocentre, Copenhagen, Denmark, September 1, 2009*

ICH: Where Have We Been and Where Should We Go?

*Third International Hypothermia Symposium, Lund, Sweden, September 2-5, 2009*

Measurement and Management of Shivering

*19<sup>th</sup> World Congress of Neurology, Bangkok, Thailand, October 25-28, 2009*

Hemorrhage. In: Spontaneous ICH

The Treatment of ICH. In: What's New in Stroke?

Hypothermia and Post-Resuscitation Care after Cardiac Arrest: In: Neurology of Extreme Conditions

*ANIM 2010: Arbeitstagung der Deutsche Gesellschaft fur Neurointensiv- and Notfallmedizin (German Neurocritical Care Society), Bad Homburg, Germany, January 20-23, 2010*

Intracerebral Hemorrhage: Pathogenesis and Clinical Spectrum. In: Presidential Symposium

*L'Urgenza in Neurochirurgia (Neurosurgical Emergencies), Universita Degli Studi di Verona, Verona, Italy, February 8, 2010*

Emergency Management of Neurosurgical Patients. Magistral Lecture.

*47<sup>TH</sup> Annual Congress of the Canadian Neurological Sciences Federation, Quebec City, Canada, June 9-11, 2010*

Update on Management of Intracerebral and Subarachnoid Hemorrhage. In: Neurovascular Surgery Course.

Inside the Black Box: Illuminating the Comatose Human Brain. Plenary Lecture.

*13<sup>th</sup> Japanese Association of Brain Hypothermia Meeting, Osaka, Japan, July 2-3, 2010*

Fever Control and Shivering

Hypothermia for Acute Ischemic Stroke

*Emirates Critical Care Conference: Dubai 2011, Dubai, United Arab Emirates, April 21-23, 2011*

Inside The Black Box: Illuminating the Comatose Human Brain

Subarachnoid Hemorrhage: New Insights

Electrical Brain Rhythms of Death

Neurological Emergencies: Meeting the Challenge

*First International Russian Neurocritical Care Symposium, Burdenko Neurosurgical Institute, Moscow, Russia, May 25-26, 2012*

Multimodality Monitoring: An Overview

Management of Intracranial Pressure: A Stepwise Approach

*ANIM 2012: Joint meeting of DGNI Deutsche Gesellschaft fur Neurointensiv- and Notfallmedizin (German Neurocritical Care Society) and Neurocritical Care Society (NCS), Mannheim, Germany, January 23-25, 2013*

Where's My Tricorder? The Future of Neurocritical Care

*2013 10<sup>th</sup> Annual Canadian Critical Care Conference, Whistler, Canada*

Electrical Brain Rhythms of Death

Inside The Black Box: Illuminating the Comatose Human Brain

Subarachnoid hemorrhage: New Strategies

*34th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 18-21, 2014.*

Stop the Bleeding. In: Intracerebral Hemorrhage

Prevention. In: Delirium

Inside the Black Box: Bain Multimodality Monitoring. In: Neuromonitoring.

Refractory Status Epilepticus. In: Neurological Challenges

ICP Management (Tutorial).

Endovascular Therapy for Stroke. In: Neurological Emergencies.

*11<sup>th</sup> Critical Care Symposium, Manchester, United Kingdom, May 2014*

The Special Problem of Hyponatremia in Stroke

*35th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 17-20, 2015.*

Subarachnoid Hemorrhage (Tutorial)

TPA for Stroke: The Helsinki Protocol. In: Cerebrovascular Accidents

How Important is it for the Brain? In: Glucose Control

Does Takutsubo Even Exist? In: Interorgan Crosstalk

Using Vasopressors Wisely. In: Subarachnoid Hemorrhage

Non-Convulsive Status Epilepticus. In: Neurological Challenges

We Need Multimodality Monitoring. In: Neuromonitoring

*28<sup>th</sup> Annual Congress of the European Society of Intensive Care Medicine, Berlin, Germany, October 3-7, 2015*

CT and MRI: What the Intensivist needs to Know. In: Neurocritical Care 101

Neuroimaging. In: Recovery of Consciousness: basics, Monitoring, Interventions

Is There a Role for Pharmacological Therapies? In: Cerebral Ischemia after SAH

Brain Injury & Network Dysfunction. In: The Future of Neurointensive care [discussion]

Treatment of Refractory Status Epilepticus. In: Controversies in the Neuro-ICU

*36th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 15-18, 2016.*

Subarachnoid Hemorrhage (Tutorial)  
Super-Refractory Status Epilepticus. In: Neurological Challenges  
ICP: A Stepwise Protocol. In: Intracranial Hypertension  
Heart/Brain Interactions: In: Subarachnoid Hemorrhage  
2016 Guidelines: In: Traumatic Brain Injury

*29<sup>th</sup> Annual Congress of the European Society of Intensive Care Medicine, Milan, Italy, October 3-5, 2016*

Fever Control in the ICU: The Hidden Evidence. In: TTM As the Standard of Care – Aligning Practice, Evidence and Guidelines  
Gut Feeling – What Function Does the Brain have? In: Organ Cross Talk

*Critical Care Canada Forum 2016, Toronto, CA, November 5<sup>th</sup>, 2016*

Management of ICP: A Stepwise Approach  
Rapid Bedside Neurological Assessment

*First International Biomedical Congress of Critical Care, Burnazian State Research Medical Center, Federal Medical & Biological Agency of Russia, Moscow, Russia*

Status Epilepticus  
Invasive and Noninvasive ICP Monitoring  
Acute Stroke: The Mount Sinai RAPID-ICP Protocol  
Continuous Video-EEG Monitoring  
Expectant Management of the Potentially Brain Dead Organ Donor

## **INVITED LECTURES AT NATIONAL MEETINGS**

*45th Annual Meeting of the American Academy of Neurology, New York, NY, May 1993*  
Cardiovascular Hemodynamic Monitoring. In: Critical Care Neurology Skills Workshop,

*47th Annual Meeting of the American Academy of Neurology, Seattle, WA, May 1995*  
Hemodynamic Augmentation in the Treatment of Vasospasm. In: Medical Management of Critically Ill Neurologic Patients,

*National Myasthenia Gravis Medical Colloquium, Lenox Hill Hospital, New York, NY, April 10, 1996.*

Intensive Care of the Myasthenic Patient

*Acute and Critical Care in Neuromuscular Diseases, Columbia-Presbyterian Medical Center, New York, NY, June 27, 1997.*

Myasthenia Gravis: Crisis Management.

*Brain Attack: Update on Medical and Surgical Management.* New York Marriott Marquis, Columbia University College of Physicians and Surgeons, New York, NY, June 6, 1998

Medical and Surgical Management of Intracerebral Hemorrhage

*24th American Heart Association International Conference on Stroke and Cerebral Circulation,* Nashville TN, February, 1999

Clinical Applicability of Hypothermia for Acute Ischemic Stroke. In: Evolving Nonpharmacologic Approaches to Ischemic Stroke: Hypothermia and Hemicraniectomy.

*Neurology for the Primary Care Provider: Diagnosis & Treatment Issues.* Essex House, Columbia University College of Physicians and Surgeons, New York, NY, April 10, 1999.

Neurological Emergencies

*Myasthenia Gravis: Advances in Diagnosis, Pathogenesis and Treatment.* Long Island Jewish Medical Center, NY, May 11, 1999

Neuro-Intensive Care of the Myasthenia Gravis Patient

*Neurologic Emergencies and Neurocritical Care.* New York Marriot Marquis, Columbia University College of Physicians and Surgeons, New York, NY, October 16, 1999.

Intracranial Pressure Management: A Stepwise Protocol.

*52nd Annual Meeting of the American Academy of Neurology, San Diego, CA, April, 2000*

Treatment Options for Refractory Status Epilepticus. In: Controversies in Critical Care  
Hypothermia for Acute Traumatic Brain Injury. In: Controversies in Critical Care.  
The Meaning and Measurement of ICP. In: Neurological Intensive Care

*New and Emerging Approaches for the Millennium. A Teaching Seminar of the National Stroke Association.* New York Academy of Medicine, New York, NY, May 16, 2000.

Subarachnoid Hemorrhage, Vasospasm, and Blood Pressure Interventions. In: Stroke Prevention and Management:

*Diagnostic & Treatment Issues in Myasthenia Gravis.* NYU Medical Center, May 20, 2000.

The Treatment of Crisis and Impending Crisis

*Brain Attack: Update on Medical & Surgical Management.* New York Marriott Marquis, Columbia University College of Physicians and Surgeons, New York, NY, June 3, 2000

Intracerebral Hemorrhage.

*30th International Educational and Scientific Symposium of the Society of Critical Care Medicine, San Francisco, CA, February 11, 2001.*

Endovascular Treatment of Vasospasm. In: Critical Care of Subarachnoid Hemorrhage

*26th International Stroke Conference of the American Stroke Association.* Fort Lauderdale, FL, February 16, 2001.

Cognitive Dysfunction and Quality of Life after SAH: The Columbia University SAH Outcomes Project. In: Aneurysmal Subarachnoid Hemorrhage in the Community: Risk and Outcome.

53rd Annual Meeting of the American Academy of Neurology, Philadelphia, PA, May, 2001.  
Hemicraniectomy for Massive Intracerebral Hemorrhage. In: Controversies in Critical Care.  
Terminal Extubation for Patients With Severe, Irreversible Brain Damage. In: Controversies in Critical Care.

*Neurologic Emergencies and Neurocritical Care. New York Academy of Medicine, Columbia University College of Physicians and Surgeons, New York, NY, May 19, 2001.*  
Intracranial Pressure Management: A Stepwise Protocol.

*Neurocritical Care 2001: Returning from the Dark Side of the Brain. Cleveland Clinic Foundation, Cleveland, OH, September 29, 2001.*  
Hypothermia for Malignant MCA Infarction.

*Neurological Critical Care: Evidence for Effective Care. A Consensus Conference. The Queen's Medical Center, Honolulu, Hawaii, November, 2001.*  
Intracranial Hypertension: Management with Hypothermia.

*Clinical Neuroscience: Update for the New Millennium. A National Seminar. Grand Hyatt New York, Columbia University College of Physicians and Surgeons, New York, NY, December 1, 2001*

NICU: Basics of a New Field (break-out session moderator)

*New Trends in Therapeutic Temperature Management. An Educational Symposium. San Antonio, TX, February 8, 2002.*  
The Sequela of Hyperthermia

23<sup>rd</sup> Princeton Conference on Cerebrovascular Disease, Coronado, CA, March 23<sup>rd</sup>, 2002.  
Limiting Hemorrhage Enlargement.

54th Annual Meeting of the American Academy of Neurology, Denver, CO, April 15, 2002.  
Hypertonic Saline as the Standard Intravenous Fluid for Acute Brain Injury. In: Controversies in Critical Care.  
Treatment of Fever in Neuro-ICU Patients: Rationale and New Approaches. In: Controversies in Critical Care.  
Severe ICP & Refractory Status Epilepticus. In: Case Studies in Critical Care.

32<sup>nd</sup> International Educational and Scientific Symposium of the Society of Critical Care Medicine Critical Care Congress, San Antonio, TX, January 2003.  
Factor 7A for Intracerebral Hemorrhage. In: Stroke and Trauma.  
Hyperthermia and Fever Control. In: New Approaches to Temperature Management.

*The Inagural Meeting of the Neurocritical Care Society, Phoenix AZ, February 15<sup>th</sup> and 16<sup>th</sup>, 2003*

The Neurocritical Care Society: Organizational Structure and Mission.

*Neurology 2003: Update for the Primary Care Provider. New York Marriott Marquis, Columbia University College of Physicians and Surgeons, New York, NY, March 8, 2003*

Neurological Emergencies

*55th Annual Meeting of the American Academy of Neurology, Honolulu, HI, April 4, 2003*

Timing of Tracheostomy in Neuromuscular Respiratory Failure. In: Controversies in Critical Care.

Is The Six Hour Time Window Sacred in Intra-Arterial Thrombolysis? In: Controversies in Critical Care.

Indications and Mangement of Hypothermia for Neuroprotection. In: Critical Care and Emergency Neurology

*25<sup>th</sup> Annual Meeting of the Society of Cardiovascular Anesthesiologists, Miami, FL, April, 2003*

Critical Illness Neuromyopathy: A Disastrous Outcome. In: the CNS as a Target Organ.

*American Association of Neurological Surgeons Annual Seeting, San Diego, CA, April, 2003.*

Intracranial Hemorrhage: Medical Approaches. In: New Advances in the Mangement of Neurosurgical Bleeding.

*Neurocritical Care 2003: Here Comes the Sun: A Global Summit on Critical Care for Cerebrovascular Disease. The Cleveland Clinical InterContinental Hotel and Conference Center, Cleveland, OH, September, 2003.*

Cerebral Vasospasm: Which H is the Most Importanrt H?

*53<sup>rd</sup> Annual Meeting of the Congress of Neurological Surgeons, Denver, CO, October, 2003.*

Alpha-2 Agonists: Neuro-ICU Considerations. In: Applied Use of Alpha-2 Adrenergic Agonists in Neurological Procedures and in the Neuro-ICU Patient.

*Brain Attack and Cerebrovascular Disease Update 2003. NewYork- Presbyterian Hospital. The Grand Hyatt, New York, NY, November 21, 2003.*

Intracerebral Hemorrhage.

*American Academy of Neurology 2004 Western Winter Conference, Lake Tahoe, CA, January, 2004.*

Status Epilepticus. In: Update in Epilepsy.

*33<sup>rd</sup> Critical Care Congress, Society of Critical Care Medicine, Orlando, FL, February 23, 2004.*

Management of Hypertension in Neurological Emeregencies. In: Hypertensive Crisis: Strategies to Minimize End-Organ Damage

EEG Monitoring for the Intensivist. In: Seizures and Status Epilepticus.

*American College of Cardiology Annual Meeting, New Orleans, LA, March 7, 2004,*  
Cardiac Arrest: Hypothermic Techniques. In: Improving Outcomes after Out-of-Hospital Arrest.

*American Association of Neuroscience Nurses 36<sup>th</sup> Annual Meeting, San Antonio, TX, April 20, 2004.*

Advances in the Management of Intracranial Hemorrhage. In: Treatment Options for Traumatic Bleeding Episodes in Neurosurgery.

*56<sup>th</sup> Annual Meeting of the American Academy of Neurology, San Francisco, CA, April 26, 2004.*

Therapy of Hypoxic Ischemic Brain Injury. In: Brain Injury after Cardiac Arrest.

Innovative Medical Treatments for Brain Hemorrhage. In: Controversies in Critical Care of Brain Hemorrhage

*Practical Critical Care. The University of Virginia Department of Neurology, Charlottesville, VA, September 24, 2004.*

Neurogenic Cardiopulmonary Complications of Acute Brain Injury

*Neurocritical Care 2004: Imagine -- A Global Summit on Critical Care for Cerebrovascular Disease. Cleveland Clinic Foundation, Cleveland, OH, November 5, 2004.*

Management of Subarachnoid Hemorrhage

*Scientific Sessions of the American Heart Association, New Orleans, LA, November 9, 2004.*

Why Won't this Patient Wake Up? A Guide for the Cardiologist. In: Getting a Head: Neurological Issues in the Practice of Cardiology.

*48<sup>th</sup> Annual Meeting and Exposition of the American Society of Hematology, San Diego, CA, December 3, 2004.*

Intracerebral Hemorrhage: New Treatment Options. In: New Approaches to Managing and Monitoring Excessive Bleeding.

*34<sup>th</sup> Critical Care Congress, Society of Critical Care Medicine, Phoenix, AZ, January 2005*

Therapeutic Hypothermia. In; Post-Graduate Course: Nuts & Bolts of Neurocritical Care.

Managing Water Balance in Neuro Patients. In: Vasopressin Receptor Antagonism: Turning the Tide Against Sat and Water Imbalance

Cooling for Stroke, Trauma, and ICP. In: Therapeutic Hypothermia: Effects of Cooling on Cardiac and Neurological Outcomes.

*30<sup>TH</sup> American Stroke Association International Stroke Conference, New Orleans, LA, February 2, 2005.*

A New Treatment Option for Intracerebral Hemorrhage In: Early Therapy for Intracerebral Hemorrhage: Options for Improving Patient Outcomes.

*Third Annual Meeting of the Neurocritical Care Society, Scottsdale, AZ, February 26, 2005.*

Dawn of the Dead: Rescue, Resuscitation and Salvage in the Neuro-ICU. Dinner Lecture.

*57<sup>th</sup> Annual Meeting of the American Academy of Neurology, Miami, FL, April 11, 2005.*

Therapy of Hypoxic Ischemic Brain Injury. In: Brain Injury after Cardiac Arrest. Overcoming Barriers to Clinical Research. In: Taking Part in Clinical Research:

NINDS Clinical Research Collaboration.

Multimodality Monitoring in the Neuro-ICU. In: Critical Care Epilepsy/EEG.

*Brain Edema XIII Intracerebral Hemorrhage Conference, Ann Arbor, MI, June 4, 2005*

Hemostatic Therapy for Intracerebral Hemorrhage. Keynote Speech.

*Annual Meeting of the Society of Neurosurgical Anesthesia and Critical Care, Atlanta GA, October 20, 2005*

Recombinant Activated Factor VII for Acute Intracerebral Hemorrhage. Plenary Lecture.

*35<sup>th</sup> Critical Care Congress, Society of Critical Care Medicine, San Francisco, CA, January, 2006*

Therapeutic Hypothermia. In: Postgraduate Neurocritical Care Course.

Blood Pressure. In: Medical Management of Subarachnoid Hemorrhage.

Control of Blood Pressure in SAH and ICH In: Optimal Blood Pressure Management in Hypertensive Emergencies.

Fever Control. In: Therapeutic Hypothermia.

*UCLA Neuro-ICU Neuromonitoring Course. UCLA Department of Neurosurgery, Los Angeles, CA, February, 2006*

Technical Aspects of Continuous EEG Monitoring

Intracranial Pressure Monitoring.

*31<sup>st</sup> American Stroke Association International Stroke Conference, Kissimmee, FL, February 16, 2006.*

Subarachnoid Hemorrhage: Approaches to Optimize Prevention and Treatment of Vasospasm. In: Debating Hypertensive Management Approaches in Acute Ischemic and Hemorrhagic Stroke.

Debate: How, When, and How Much Should Blood Pressure be Lowered in the Setting of Intracerebral Hemorrhage? In: Debating Hypertensive Management Approaches in Acute Ischemic and Hemorrhagic Stroke.

*3<sup>rd</sup> New York Symposium on Neurological Emergencies and Neurocritical Care. The New York Academy of Medicine, New York, NY, May 4<sup>th</sup>, 2006*

Ultra-Early Hemostatic Therapy. In: Intracerebral Hemorrhage.

Temperature. In: Physiological Homeostasis.

Fever Control. In: Hypothermia Workshop.

ICU Cooling Protocols. In: Hypothermia Workshop.

Keeping it Real: Quality Assurance and Benchmarking.

*25th Princeton Conference on Cerebrovascular Disease, Portland, OR, May 20th, 2006*

Factor VII in Human Intracerebral Hemorrhage.

*Second Annual Vascular Neurology Board Review Course, UMDNJ, Newark, NY, June 2, 2006.*

Intracerebral Hemorrhage.

Subarachnoid Hemorrhage

*4<sup>th</sup> Annual Meeting of the Neurocritical Care Society, Baltimore, MD, November 2, 2006.*

Design and Implementation of Research Protocols. In: Building the Future of Neurocritical Care.

Saturday Night Fever: Rational Work-Up and Management.

*Brain Attack and Cerebrovascular Disease Update 2006, New York Presbyterian Hospital, New York, NY, November 17, 2006.*

Intracerebral Hemorrhage.

*ICU of the Future at UCLA, Los Angeles, CA, January 26, 2007.*

What the Clinician Wants From ICU Information Platforms.

Interesting Cases in Multimodality Monitoring

*2007 International Stroke Conference, San Francisco, CA, February 9, 2007*

Factor VIIa: Ready for Use? In: Intracerebral Hemorrhage.

Advances in the Management of ICH. In: 2006 Stroke Management Update. Satellite Symposium

Blood Pressure Management in Intracerebral Hemorrhage. In: Issues and Controversies in Acute Stroke Management: The Experts Debate Continues.

Prevention and Treatment of Vasospasm in Subarachnoid Hemorrhage. In: Issues and Controversies in Acute Stroke Management: The Experts Debate Continues.

*Therapeutic Temperature Management: A Rocky Mountain Summit. Breckenridge, CO, March 7, 2007.*

Hyperthermia and Fever Control.

*59<sup>th</sup> Annual Meeting of the American Academy of Neurology, Boston, MA, April, 2007.*

Current Best Practices for Intracerebral Hemorrhage. In: Neurological Intensive Care.

Intracerebral Hemorrhage: The New Framework. In: Acute Stroke Management.

Intracerebral Hemorrhage. In: Cerebrovascular Diseases.

Randomized, Placebo-controlled, Double Blind Phase III Trial of rVIIa Efficacy in Acute Intracerebral Hemorrhage: the FAST Trial. In: Late Breaking Science.

*4<sup>th</sup> New York Symposium on Neurological Emergencies and Neurocritical Care, May, 2007.*

Intracranial Pressure. In: ABC and ICP.

Hemostatic Therapy for ICH: The FAST Trial.

Inside the Black Box: Illuminating the Comatose Brain

Intracerebral Hemorrhage. In: Multimodality Case Studies.

Fever Control. In: Therapeutic Hypothermia Workshop.

*5<sup>th</sup> Annual Neurocritical Care and Stroke Conference: Neurocritical Care 2007: You Might Think. Cleveland Clinic, October 5, 2007*

Medical Management: Factor VIIa: Yes, No, Maybe?

*Association of University Professors of Neurology 7<sup>th</sup> Annual Leadership Course, Washington DC, October 7, 2007*

Neurocritical Care: Superfluous or Essential?

*American College of Emergency Physicians, Seattle, WA, October 9, 2007*

BP Control and Stroke: Pro – Calcium Blockers. In: Knockout at the Needle: Hot Topics in Emergency Medicine

*American College of Chest Physicians, Chicago, IL, October 17, 2007*

BP Control in Neurological Emergencies. In: Hypertensive Crises in the Critical Care Setting: Current Perspectives and Practice Challenges

*5<sup>th</sup> Annual Meeting of the Neurocritical Care Society, Las Vegas, NV, October 31, 2007*

Rational use of Antibiotics in the ICU

*Critical Care Networks: A Partnership Model to Improve Patient Outcomes, The New York Academy of Medicine, January 15-16, 2008*

Management of Intracranial Pressure

*UCLA Neurosurgery ICU of the Future, January 24-25, 2008*

Controversies in Intracerebral Hemorrhage

Hypothermia in Neurocritical Care

*Monitoring Brain Chemistry During Neurointensive Care: State of the Art, Scandinavia House, New York, NY, February 29, 2008*

Multimodality monitoring: who, when, why?

Microdialysis: the Columbia experience

*Society of Neurological Surgeons, 99<sup>th</sup> Meeting in the 88<sup>th</sup> Year, Madison, WI, May 18-20, 2008*

Financing a neurocritical care program

*The Littauer Foundation International Symposium on End of Life Issues from a Jewish Perspective, Columbia University, New York, May 22, 2008*

Brain Death: A Secular Perspective

*Society of Academic Emergency Medicine, Washington, DC, May 30, 2008*

Beyond the FAST Trial. In: Neuroresuscitation Study Design: Analyzing Success...and Failure

*The Endocrine Society 90<sup>th</sup> Annual Meeting, San Francisco, CA, June 15, 2008*

Evaluation and Management of Hyponatremia in Brain Injured Patients: Differentiating SIADH from Cerebral Salt Wasting

*Brain Trauma Foundation Lunchtime Web Lecture, August 15<sup>th</sup>, 2008*  
Hypothermia for Traumatic Brain Injury

*Getting Better: 6<sup>th</sup> Annual Cleveland Neurocritical Care and Stroke Conference, September 12<sup>th</sup>, 2008*  
Taking it to the Limit: Management of Poor Grade SAH

*Hypothermia: From Threat to Cure. New York Academy of Sciences, New York, NY, September 19, 2008*

Hypothermia and Normothermia in Neurocritical Care

*6<sup>th</sup> Annual Meeting of the Neurocritical Care Society, Miami, FL, October 22-25, 2008*  
Novel and Emerging Cooling Strategies

*Chest 2008, Philadelphia, PA, October 29, 2008*  
Traumatic Brain Injury

*New York State Society of Anesthesiologists 62<sup>nd</sup> Post Graduate Assembly, New York, NY, December 12, 2008*

Perioperative Glycemic Control In Neurosurgical Patients: Do We Know What Normal Is?  
In: Neuroanesthesia Controversies: Fact or Fiction?

*38<sup>th</sup> Critical Care Congress, Society of Critical Care Medicine, Nashville, TN, Feb 1, 2009*  
Evolving Strategies for Hyponatremia Management in the ICU. In: Hyponatremia: An Update for Critical Care Management

*2009 International Stroke Conference, San Diego, CA, February 18-20, 2009*  
Off-Label Use of Factor VII for ICH. In: Ethical Issues in Stroke Care  
The Stroke/Neurointensivist/Hospitalist. In: What are the Different career paths in Academic Stroke Medicine?

*Neurological Institute of New York Centennial Symposium, New York, NY September 27, 2009*  
Advances in Neurocritical Care

*All Together Now: 7th Annual Cleveland Neurocritical Care and Stroke Conference, Case Western Reserve University, Cleveland, OH, September 27, 2009*  
Don't Stop Believin': Any Role for Factor VII Now?

*Controversies and Advances in the Treatment of Cardiovascular Disease: The Ninth in the Series, Presented by the West Coast Chapter of the American College of Cardiology, The Beverly Hills Hotel, Los Angeles, CA, October 1-2, 2009*  
New York City Project Hypothermia

*American Academy of Neurology Winter Update, Las Vegas, NE, November 6, 2009*  
Neurocritical Care

*39<sup>th</sup> Critical Care Congress, Society of Critical Care Medicine, Miami, FL, January 9-13, 2010*

Hypothermia after Cardiac Arrest

What is the Ideal Sodium after Brain Injury?

*UCLA Neurosurgery ICU of the Future, January 24-25, 2008*

Hypothermia for Cardiac Arrest

Novel Treatments for Vasospasm

Multimodality Monitoring Critical Pathways

*62<sup>ND</sup> Annual Meeting of the American Academy of Neurology, Toronto, CA, April 12-16, 2010*

Interactive Case Studies. In: Neurology Skills Pavilion: Acute Stroke Alert

Management of ICH: What's New, What's True. In: Therapy Program: Stroke

What's New in the Management of ICH: In: Neurological Intensive Care

*UCLA Brain Attack 2010! Los Angeles, CA, May 22, 2010*

Keynote Speech: Saving the Brain in Cardiac Resuscitation: Hypothermia and the Stroke Community

*General Electric Health Care Global Global Technology Symposium, Milwaukee, WI, September 22, 2010*

Keynote Speech: Multimodality ICU Monitoring: What the User Wants

*Neurocritical Care 2010: Walk of Life, Case Western Reserve University, Cleveland, OH, October 14, 2010*

While My Guitar Gently Weeps: When to Push and When to Stop

*Specialists on Call Annual Meeting, Orlando, FL, October 2011*

Elevated Intracranial Pressure: New Approaches to an Age-Old Problem

*9<sup>th</sup> Annual Meeting of the Neurocritical Care Society, Montreal, Canada, October 2011*

Terrorism: In: Neurocritical Care in Extreme Conditions

*Neurocritical Care 2011: Across the Universe. Case Western Reserve University, Cleveland, OH, September 2011*

Whiter Shade of Pale: Management of Intracerebral Hemorrhage

*Neurotrauma and Neurocritical Care of the Future, UCLA, January 19 and 20, 2012*

Using Brain Monitors to Guide Therapy

Cardiac Arrest: Therapeutic Hypothermia

*64<sup>th</sup> Annual Meeting of the American Academy of Neurology, New Orleans, LA, April 25, 2012*

Acute Stroke Alert Skills Workshop (course director)

*10<sup>th</sup> Society of Neurointerventional Surgery Practicum, New York, NY, April 27, 2012*

Post-Procedure: ICU and Afterwards

*10<sup>th</sup> Annual Meeting of the Neurocritical Care Society, Denver, CO, October 7, 2012*  
Skip the Rat: Basic Science Rarely Helps Our Patients

*42nd Critical Care Congress, Society of Critical Care Medicine, San Juan, PR, January 213, 2013*  
Hypothermia. In: Post Cardiac Arrest Care

*American Thoracic Society 2013, Philadelphia, PA, May 21, 2013*  
Persistent Seizures. In: At the Edge of Evidence. What Should I Do Now?

*The Northeastern Cerebrovascular Consortium 8<sup>th</sup> Annual Summitt, Boston, BA, Oct 18, 2013*  
Critical Care of Stroke

*2014 International Stroke Conference, San Diego, CA, February 13, 2014*  
Licox Monitoring: In; Neurocritical Care

*The Second Annual Neuro-ICU Symposium, March 5-7, 2014, Mischer Neuroscience Institute, UT Health, Houston, TX*  
Inside the Black Box: Illuminating the Comatose Brain  
ICP: How to Do it Right  
MMM: Pro (Crossfire debate)

*66<sup>th</sup> Annual Meeting of the American Academy of Neurology, Philadelphia, PA, April 27, 2014*  
All cEEG Siezures Should be Aggressively Treated. In: Hot Topics Crossfire Debate:  
When and How to Withdraw Life Support. In: Neurological Intensive Care

*Don't Look Back: 11th Annual Cleveland Neurocritical Care and Stroke Conference, Case Western Reserve University, Cleveland, OH, May 30, 2014*  
Update on Subarachnoid Hemorrhage

*3<sup>rd</sup> Neurocritical Care Society Research Symposium, Baylor College of Medicine, Houston, TX, August 16, 2014*  
Outcome Calculators

*12<sup>th</sup> Annual Meeting of the Neurocritical Care Society, September 10-13, Seattle, WA*  
Multimodality Monitoring: Role of CBF Measurement

*44th Critical Care Congress, Society of Critical Care Medicine, Phoenix, AZ, January 19, 2013*  
Hyponatremia: Pathogenesis and Initial Diagnosis. In: Diagnosis and Application of Current and Emerging Therapeutic Interventions for Hyponatremia in the Critical Care Patient

*Walking in Memphis: 2015 Annual Multi-Disciplinary Memphis Stroke Conference, February 14, 2015*  
Neurocritical Care: Past, Present and Future

*American Heart Association / American Stroke Association 2016 International Stroke Conference, Los Angeles, CA, February 17-20, 2016*

Critical Care: In: The Next Big Thing in Stroke (at Lightning Speed).

Cardiovascular Complications of Subarachnoid Hemorrhage. In: Neurocritical Care of SAH

*The 12<sup>th</sup> NY Symposium on Neurological Emergencies and Neurocritical Care, New York, NY, June 8-11, 2016*

Fast + Furious: Breaking the Speed Barrier for Stroke

Critical Care of the Reperfused Brain

Prognostication After Cardiac Arrest

Inside the Black Box: Understanding the Comatosr Human Brain

Emergency Reversal of Anticoagulation

Refractory ICP Crisis: When the Going Gets Tough

*14<sup>th</sup> Annual Meeting of the Neurocritical Care Society, Washington DC, September 14-16, 2016*

Fever Management and Hyperthermia

Diagnosis and management of Super Refractory Status Epilepticus

*American Heart Association Resuscitation Science Symposium 2016, New Orleans, LA, November 14, 2016*

Titrating Post-Arrest care to EEG

*9<sup>th</sup> Annual Meeting of the Society of Vascular and Interventional Neurology. Brooklyn, NY, November 16-19, 2016*

Critical Care of the Reperfused Brain

Moderator, Panel Discussion on Stroke Access Care for One and All: National and International Objectives

## **VISITING PROFESSOR**

- 1998 Intracerebral Hemorrhage. Neurology Grand Rounds, *Long Island Jewish Medical Center, New Hyde Park, NY*
- 1999 Update in Neurocritical Care. Neurology Grand Rounds, *Beth Israel Medical Center, Singer (North) Division, New York, NY*
- 2002 New Approaches to the Treatment of Intracerebral Hemorrhage. Neurology Grand Rounds, *Weil-Cornell School of Medicine, New York-Presbyterian Hospital, New York, NY*
- 2003 Update in Neurological Intensive Care. Department of Neurology Grand Rounds, *Hartford Hospital, Hartford CT*

- 2003 Control of Blood Pressure in Neurological Emergencies. Department of Neurology Grand Rounds, *Drexel University School of Medicine, Philadelphia, PA*
- 2003 Control of Blood Pressure in Neurological Emergencies. Surgical Anesthesia Critical Care Grand Rounds, *Thomas Jefferson Medical Center, Philadelphia, PA.*
- 2003 Critical Care of Intracerebral Hemorrhage. Department of Neurology Grand Rounds, *Massachusetts General Hospital, Boston, MA.*
- 2004 Critical Care of Intracerebral Hemorrhage. Neurology Grand Rounds, *USC Medical Center, Los Angeles, CA*
- 2004 Assessment of Outcomes after Subarachnoid Hemorrhage. Neurocritical Care Research Seminar, *UCLA Medical Center, Los Angeles, CA*
- 2004 Hypothermia for Acute Ischemic Stroke. Neurocritical Care Grand Rounds, *Johns Hopkins Medical Center, Baltimore, MD*
- 2004 Critical Care of Increased Intracranial Pressure. Neurology Grand Rounds, *University of Rochester School of Medicine, Rochester, NY*
- 2004 Vasoactive Therapy in Neuro-ICU Patients. Neurology/Neurosurgery Grand Rounds, *Barrow Neurological Institute, Phoenix, AZ*
- 2004 Emergency and Critical Care Management of Intracerebral Hemorrhage. Neurology Grand Rounds, *Northwestern University Memorial Hospital, Chicago, IL*
- 2004 Emergency and Critical Care Management of Intracerebral Hemorrhage. Neurosurgery Grand Rounds, *Barnes/Jewish Medical Center, Washington University, St Louis, MO.*
- 2005 Update in Neurocritical Care. Department of Neurology Grand Rounds, *Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY*
- 2005 Update in Neurocritical Care. Neurology/Neurosurgery Grand Rounds, *Albany Medical College, Albany, NY*
- 2005 Emergency and Critical Care Management of Intracerebral Hemorrhage. Department of Neurology Grand Rounds, *SUNY Stony Brook, Stony Brook, NY*
- 2005 Critical Care Management of Subarachnoid Hemorrhage. Neurology/Neurosurgery Grand Rounds, *Brown University School of Medicine, Providence, RI*
- 2005 Update in Neurocritical Care. Department of Neurology/Neurosurgery Grand Rounds, *Yale University School of Medicine, New Haven, CT*

- 2005 Outcomes Research in Subarachnoid Hemorrhage. Department of Neurology Grand Rounds, *University of Pennsylvania Medical Center, Philadelphia, PA.*
- 2005 Emergency and Critical Care Management of Intracerebral Hemorrhage. Neurology/Neurosurgery Grand Rounds, *Emory University Medical Center, Atlanta, GA.*
- 2005 Management of ICP and Brain Edema in Patients with Stroke. Neurology/Neurosurgery Grand Rounds, *University of Cincinnati Medical Center, Cincinnati, OH*
- 2006 Therapeutic Hypothermia. Neurology/Neurosurgery Grand Rounds, *Stanford University School of Medicine, Palo Alto, CA*
- 2006 Update in Neurocritical Care. Neurology Grand Rounds, *University of Vermont Medical Center, Burlington, VT*
- 2006 Emergency and Critical Care Management of Intracerebral Hemorrhage. Neurosurgery Grand Rounds, *Detroit Receiving Hospital, Wayne State Medical Center, Detroit, MI*
- 2007 Optimizing Blood Pressure in Neurological Emergencies. Neurology Grand Rounds, *SUNY Downstate Medical Center, Brooklyn, NY*
- 2007 Inside the Black Box: Insights into the Comatose Injured Brain. Neurology Grand Rounds, *University of Massachusetts Medical Center, Worcester, MA*
- 2007 Recombinant Factor VIIa for Intracerebral Hemorrhage. Anesthesiology Grand Rounds, *The Brigham and Women's Hospital, Boston, MA*
- 2007 Inside the Black Box: New Insights into the Comatose Injured Brain. Critical Care Medicine Grand Rounds, *University of Pittsburgh Medical Center, Pittsburgh, PA.*
- 2007 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *Oregon Health and Sciences University, Portland, OR*
- 2008 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *University of Maryland School of Medicine, Baltimore, MD*
- 2008 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *Johns Hopkins School of Medicine, Baltimore, MD*
- 2008 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *McKnight Neurological Institute, Shands Medical Center, University of Florida, Gainesville, FL*
- 2009 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *Medical College of Wisconsin, Milwaukee, WI*

- 2009 New Concepts in the Management of Intracranial Pressure. Neurology/Neurosurgery Grand Rounds, *University of Mississippi Medical Center, Jackson, MS*
- 2010 Neurointensive Care of Stroke. Institut D'Investigations Biomediques August Pi i Sunyer Lecture, *Hospital Clinic, Barcelona, Spain*
- 2010 Electrical Brain Rhythms of Death. Neurology/Neurosurgery Grand Rounds, *University of Heidelberg, Heidelberg, Germany.*
- 2011 Inside the Black Box: Illuminating the Comatose Injured Brain. Neurology Grand Rounds, *University of Washington School of Medicine, St Louis, MO*
- 2012 Cardiocerebral Resuscitation. Department of Neurology Grand Rounds, *University of Utah, Salt Lake City, UT*
- 2013 Inside the Black Box. Illuminating the Comatose Human Brain. Department of Neurology Grand Rounds, *Beth Israel Deaconess Medical Center, Boston, MA*
- 2014 SAH: New Concepts. Department of Neurosurgery, *Memorial Hermann Hospital, UT Houston Medical Center, Houston TX*
- 2016 Inside the black box. Illuminating the comatose human brain. Neurology Grand Rounds, *Cedars Sinai Medical Center, Los Angeles, CA*

#### INVITED LECTURES

- 1994 Neurogenic cardiac and pulmonary disturbances in subarachnoid hemorrhage. Neurology/Neurosurgery Grand Rounds, *Beth Israel Medical Center, New York, NY.*
- 1994 Subarachnoid hemorrhage: neurogenic cardiac and pulmonary effects. Neurology Grand Rounds, *Neurological Institute, Columbia-Presbyterian Medical Center, New York, NY.*
- 1995 Fluid management in subarachnoid hemorrhage. Neurosurgery Grand Rounds, *Neurological Institute, Columbia-Presbyterian Medical Center, New York, NY*
- 1995 Subarachnoid hemorrhage. Internal Medicine Grand Rounds, *Horton Hospital, Middletown, NY*
- 1995 Pathophysiology and management of increased intracranial pressure. Pediatric Neurology Grand Rounds, *Neurological Institute, Columbia-Presbyterian Medical Center, New York, NY.*
- 1995 Evaluation and management of altered mental status. Medical House Staff Conference, *Department of Medicine, Columbia-Presbyterian Medical Center, New York, NY*
- 1995 Neurologic aspects of eclampsia. Internal Medicine Grand Rounds, *Department of Medicine, Roosevelt Hospital, New York, NY.*
- 1996 Neurogenic cardiac and pulmonary disturbances in acute subarachnoid hemorrhage. Internal Medicine Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*

- 1996 Neurocardiology in the neuro-ICU: A practical approach. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1996 Physiology of consciousness and pathophysiology of coma. 18th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 1996 Recent advances in neurocritical care. Neurology Grand Rounds, *Long Island Jewish Medical Center, New Hyde Park, NY*
- 1996 Update in critical care neurology. *Westchester Academy of Medicine, Purchase, NY*
- 1996 Myasthenic crisis. Neurology Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1996 Neurogenic cardiac and pulmonary disturbances in acute subarachnoid hemorrhage. Neurology Grand Rounds, *New York University School of Medicine, New York, NY*
- 1996 Update in neurological intensive care. Neurology Grand Rounds, *Saint Vincents Hospital, New York College of Medicine, New York, NY*
- 1996 Update in neurological intensive care. Internal Medicine Grand Rounds, *Passaic General Hospital, Passaic, NJ*
- 1996 Update in neurological intensive care. Internal Medicine Grand Rounds, *Elizabeth Medical Center, Elizabeth, NJ*
- 1996 Physiology of consciousness and pathophysiology of coma. 19th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 1997 Neurological emergencies. Bennie and Martha Benjamin Foundation Medical Lecture Series. *Gov. Juan F. Luis Hospital, St. Croix; Gov. Roy L. Schneider Hospital, St. Thomas; U.S. Virgin Islands.*
- 1997 Update on the management of subarachnoid hemorrhage. Seminars on Advances in Medicine. *Mercy Medical Center, Rockville Center, NY.*
- 1997 Withdrawing life support: a hands-on perspective. New York City Chapter of the American Association of Critical Care Nurses. *Hunter College, New York, NY.*
- 1997 Myasthenic crisis. Neurology Grand Rounds, *New York University School of Medicine, New York, NY.*
- 1997 Myasthenic crisis. Neurology Grand Rounds, *Saint Vincents Hospital, New York College of Medicine, New York, NY.*
- 1997 Management of dural sinus thrombosis. Pediatric Neurology Grand Rounds, *Neurological Institute, Columbia-Presbyterian Medical Center, New York, NY.*
- 1998 Neurogenic cardiac injury: a silent killer. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1998 Physiology of consciousness and pathophysiology of coma. 20th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 1998 ICU management of stroke. Keynote Address, Norwalk Hospital Critical Care Symposium, *Norwalk Hospital, Norwalk CT.*

- 1998 Intracerebral hemorrhage. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1998 Intracerebral hemorrhage: past, present, and future. Neurology Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1998 Update in neurological intensive care. Neurology Grand Rounds, *New York Hospital-Queens Division, New York, NY*
- 1998 Withdrawal of life support. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1999 ICU management of stroke. Medical Grand Rounds, *Stamford Hospital, Stamford CT.*
- 1999 Physiology of consciousness and pathophysiology of coma. 21th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 1999 Stepwise management of elevated intracranial pressure in the ICU. Critical Care Grand Rounds, *St. Francis Hospital, Poughkeepsie, NY.*
- 1999 Sedation in the neuro-ICU. Neurosurgery Grand Rounds, *SUNY Downstate Medical Center, Brooklyn, NY.*
- 1999 Update on ICP management. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 1999 Neurological examination made simple. Medical Housestaff Conference, *St. Vincents Medical Center, Bridgeport, CT*
- 1999 Acute management of head injury. The Third Annual Trauma Education Day, presented by *Mid-Hudson Health Continuing Medical Education and the George T. Whalen Trauma Center, St. Francis Hospital, Casperkill Country Club, Poughkeepsie, NY.*
- 1999 Current management of the neuro-intensive care patient. Critical Care Essentials, presented by the *American Association of Critical Care Nurses, NYC Chapter, New York Marriot Financial Center Hotel, NY, NY.*
- 1999 ICP therapy and sedation in neurocritical care. Department of Anesthesiology Grand Rounds, *St. Barnabas Medical Center, Livingston, NJ*
- 1999 Catastrophic stroke: Y2K and beyond (with Drs. H. Duong and M. Elkind). Advances in Clinical Neurosciences: Neurological Institute Grand Rounds. *Columbia-Presbyterian Medical Center, New York, NY.*
- 1999 Advances in acute stroke management. Bennie and Martha Benjamin Foundation Medical Lecture Series. *Gov. Juan F. Luis Hospital, S.t Croix; Gov. Roy L. Schneider Hospital, St. Thomas; U.S. Virgin Islands.*
- 1999 Critical care of subarachnoid hemorrhage. Department of Neurology Grand Rounds, *New Jersey Neuroscience Institute, John F. Kennedy Medical Center, Edison, NJ*
- 2000 Subarachnoid hemorrhage. Medical Grand Rounds, *Mountainside Medical Center, Montclair, NJ.*
- 2000 Physiology of consciousness and pathophysiology of coma. 22nd Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*

- 2000 Recent advances in neurocritical care. Department of Medicine Grand Rounds, *Winthrop University Hospital, Mineola, NY*
- 2000 Head injury: emergency management. In: *Brain Attacks: Recognition & Management of Neurological Emergencies*. *Columbia-Presbyterian Medical Center, New York, NY*
- 2000 Treatment of intracranial hypertension: what works and what doesn't. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, NY, NY*.
- 2000 Recent advances in neurocritical care. Medical Grand Rounds, *St. Vincents Medical Center, Bridgeport, CT*
- 2000 Intracerebral hemorrhage: pathophysiology & management. Department of Neurology Grand Rounds, *NYU Medical Center, New York, NY*.
- 2000 Practice and pitfalls of withdrawing life support. Department of Medicine Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY*.
- 2000 Clarifying confusion: evaluation of altered mental status. Department of Medicine House Staff Lecture Series, *Columbia-Presbyterian Medical Center, New York, NY*.
- 2000 Management of brain attack. Clinical Nursing and Technology in a New Millennium: *Annual Meeting of the Philippine Nurses Association of New York, Inc., New York Marriot World Trade Center, New York, NY*.
- 2000 Withdrawing life support: ethical and clinical considerations. Department of Neurology Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY*.
- 2000 Myasthenic crisis. Medical Grand Rounds, *NYU Beekman Downtown Hospital, New York, NY*
- 2000 Pathophysiology and management of increased intracranial pressure. Neurology Grand Rounds, *Long Island Jewish Medical Center, New Hyde Park, NY*
- 2001 Evaluation and management of coma. Medical Grand Rounds, *Mercy Medical Center, Rockville Center, NY*.
- 2001 Endovascular management of vasospasm: the neuro-intensivists perspective. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY*.
- 2001 Advances in neurocritical care. Neurology/Neurosurgery Grand Rounds, *North Shore University Hospital, Manhasset, NY*
- 2001 Ultra-early hemostatic therapy for acute intracerebral hemorrhage: The NovoSeven ICH Trial. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY*.
- 2001 ICU management of elevated intracranial pressure. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY*.
- 2001 Evidence-based management of severe traumatic brain injury. Brain Trauma Foundation lecture, *Staten Island University Hospital, New York, NY*.
- 2001 Evidence-based management of severe traumatic brain injury. Brain Trauma Foundation lecture, *Erie County Medical Center, Buffalo, NY*.

- 2001 Management of elevated intracranial pressure: a stepwise protocol. Neurology Grand Rounds, *Westchester Medical Center/New York Medical College, Valhalla, NY.*
- 2002 Management of elevated intracranial pressure: a stepwise protocol. Anesthesia/Critical Care Grand Rounds, *Mount Sinai Medical Center, New York, NY*
- 2001 Case study: Induced hypertension for acute ischemic stroke. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Update in neurocritical care. In: Diagnosis and Treatment of Brain Failure. Organ Failure 2001-2002; Evolving Concepts in Organ Failure Management and Transplantation Therapies. *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Neurological complications of cardiac surgery. Neurological Symposium: Medical Grand Rounds, *Staten Island University Hospital, New York, NY.*
- 2002 Physiology of consciousness and pathophysiology of coma. 24th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 2002 Cognitive dysfunction and quality of life after subarachnoid hemorrhage. Neurology Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Medical management of intracranial pressure in stroke patients. In: Management of Cerebrovascular Disorders for the New Millennium. The Connecticut Neurological Society Annual Meeting 2002. *Farmington Marriott, Hartford Hospital, Hartford, CT*
- 2002 Practical neurological examination. Medical House Staff Conference, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Neurological emergencies: intensive care of stroke. Department of Medicine Grand Rounds, *Nassau County Medical Center, Hempstead, NY*
- 2002 Refractory status epilepticus. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Assessment of outcome after subarachnoid hemorrhage: beyond the Glasgow Outcome Scale. Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Clarifying confusion: evaluation of altered mental status. Department of Medicine House Staff Lecture Series, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2002 Evidence-based management of severe traumatic brain injury. Neurology Grand Rounds, *Long Island Jewish Medical Center, New Hyde Park, NY*
- 2003 Critical care of severe traumatic brain injury. Neurology Grand Rounds, *NYU Medical Center, New York, NY.*
- 2003 Physiology of consciousness and pathophysiology of coma. 25th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY*
- 2003 Acute bacterial meningitis. Department of Medicine Housestaff Lecture Series, *Columbia-Presbyterian Medical Center, New York, NY.*

- 2003 Case discussion: reversal of locked-in syndrome. Critical Care Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2003 Evaluation of altered mental status. Medical House Staff Conference, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2003 Update in neurological intensive care. Department of Medicine Grand Rounds, *Stamford Hospital, Stamford CT.*
- 2003 Advances in treatment of ischemia-associated brain edema. In: 2003 Stroke Update: Advances in Treatment, Prevention & Rehabilitation. *New York Hospital Queens, Flushing, NY*
- 2003 Control of blood pressure in neurological emergencies. In: Neurocritical Care Update. New York City Chapter of the American Association of Critical Care Nurses. *NYU Medical Center and Mt Sinai Medical Centers, New York, NY.*
- 2003 Control of blood pressure in neurological emergencies. Department of Neurosurgery Grand Rounds, *Columbia-Presbyterian Medical Center, New York, NY.*
- 2004 New approaches to the treatment of intracranial hemorrhage. Department of Medicine Grand Rounds, *Genesys Medical Center, Flint, MI.*
- 2004 Physiology of consciousness and pathophysiology of coma. 26th Annual Postgraduate Review Course: Basic and Clinical Neurosciences. *Columbia University College of Physicians and Surgeons, New York, NY.*
- 2004 New approaches to the treatment of intracranial hemorrhage. Department of Medicine Grand Rounds, *Phelps Memorial Hospital, Sleepy Hollow, NY*
- 2004 Brain tissue oxygen monitoring in neurocritical care. Department of Neurosurgery Grand Rounds, *Columbia-University Medical Center, New York, NY*
- 2004 Critical care of intracerebral hemorrhage. *Baltimore Stroke Club, Baltimore, MD*
- 2004 Vasoactive therapy in neurocritical care. Critical Care Grand Rounds, *California Pacific Medical Centre, San Francisco, CA*
- 2004 Therapeutic temperature modulation in neurocritical care: dawn of the ice age. Department of Neurology Grand Rounds, *Neurological Institutute, Columbia University Medical Center, New York, NY*
- 2004 Rescue, resuscitation and salvage of the near-dead: Neurocritical care 2004. *Department of Medicine Grand Rounds, Metropolitan Hospital Center, New York, NY*
- 2004 Critical care management of intracranial pressure. Department of Surgical Trauma and Critical Care Grand Rounds, *Crozer Chester Medical Center, Crozer, PA*
- 2004 Vasoactive therapy in critically ill patients. In: 2004 Barrow Nursing Symposium, *Barrow Neurologiklk Institutre, Phoenix AZ*
- 2004 Treatment modalities of acute hypertension. In: Challenges 2004. *Presented by The American Association of Critical-Care Nurses New York City Chapter, Helmsly Hotel, New York, NY.*
- 2004 Neurological emergencies. Department of Medicine Grand Rounds, *Mercy Medical Center, Rockville Center, NY.*

- 2004 Management of malignant MCA infarction. Critical Care Grand Rounds, *Columbia University Medical Center, New York, NY.*
- 2004 Rescue, resuscitation and salvage of the near-dead: neurocritical care 2004. Department of Neurology Grand Rounds, *Weil-Cornell Medical Center, New York, NY.*
- 2005 Neurocritical care. In: The Annual New York Metropolitan Symposium on Managing Critical Care Systems: Chronic Critical Illness. December 12, 32004, New York Academy of Sciences. *Presented by Albert Einstein College of Medicine and Montefiore Medical Center.*
- 2005 Emergency and critical care management of intracerebral hemorrhage. *Department of Medicine Grand Rounds, Mayo Clinic Jacksonville, Jacksonville, FL.*
- 2005 Update in neurological intensive care. *North Florida Neurological Association, Nemours Children's Clinic, Jacksonville, FL.*
- 2005 Management of cerebral edema and ICP in stroke patients. Neurovascular Conference, *Swedish Medical Center, Denver, CO.*
- 2005 Update in neurological intensive care. *Colorado Neurological Association, Denver, CO.*
- 2005 Emergency and critical care management of intracerebral hemorrhage. *Phoenix Neurovascular Society, Phoenix, AZ*
- 2005 Management of blood pressure in neurological emergencies. Department of Medicine Grand Rounds, *St Barnabas Medical Center, Bronx, NY.*
- 2005 Update in Neurocritical Care, Department of Neurology Grand Rounds, *NYU Medical Center, New York, NY*
- 2005 New therapeutic strategies for intracerebral hemorrhage. In: Current Topics in Neurology: Stroke. *New York Methodist Hospital, Brooklyn, NY.*
- 2005 Update in neurocritical care. Medicine Grand Rounds, *Holy Name Hospital, Teaneck, NJ*
- 2005 Emergency and critical care management of intracerebral hemorrhage. Department of Neurology Grand Rounds, *Beth Israel Medical Center, New York, NY*
- 2005 Emergency and critical care management of intracerebral hemorrhage. Department of Neurology Grand Rounds, *St. Luke's Hospital Center, Houston, TX.*
- 2005 Intervention in acute stroke: the first 60 minutes. First Annual Network Nurses Luncheon, *Columbia University Medical Center, New York, NY.*
- 2005 Emergency and critical care management of intracerebral hemorrhage. Neurology Grand Rounds, *University of Arkansas for Medical Sciences, Little Rock, AS*
- 2005 Update in neurocritical care. Critical Care Grand Rounds, *Columbia University Medical Center, New York, NY.*
- 2005 Management of intracerebral bleeding. In: Critical Care: A Multidisciplinary Approach. *Saint-Lukes/Roosevenlt Medical Centert, New York, NY.*
- 2005 Management of intracerebral hemorrhage. Bimonthly lecture, *Philadelphia Neurological Society, Philadelphia, PA*
- 2006 Control of blood pressure in neurological emergencies. Emergency Medicine/Critical Care Grand Rounds, *Hackensack University Medical Center, Hackensack, NJ*

- 2005 ICU management of subarachnoid hemorrhage. North Shore/LIJ Neurology Grand Rounds, *North Shore University Hospital, Manhasset, NY*
- 2005 Update in neurocritical care. Department of Neurology Grand Rounds, *University of Louisville School of Medicine, Louisville, KY*
- 2005 Management of blood pressure in neurological emergencies. Department of Emergency Medicine Grand Rounds, *Beth Israel Deaconess Medical Center, Boston, MA*
- 2005 Critical care of subarachnoid hemorrhage. *Presented at the First Annual Columbia University J. Lawrence Poole Neurosurgical Research Symposium, New York, NY*
- 2006 Update in neurocritical care. Pulmonary/Critical Care Grand Rounds, *NYU Medical Center, New York, NY*
- 2006 Death is not the enemy, but occasionally needs help with timing. In: *American Stroke Association Brooklyn Stroke Symposium, Marriott Brooklyn Bridge, Brooklyn, NY*
- 2006 Neurocritical Care. In; Emergencies: What We Can Do to Help Ourselves. Presented at the Columbia Presbyterian Health Sciences Advisory Council, *Columbia University Medical Center, New York, NY.*
- 2006 Emergency and critical care management of intracerebral hemorrhage. In: *Stroke: The Evolution of Care. Advocate Health Care CME Conference, Drury Lane Theater, Oakbrook Terrace, IL*
- 2006 Acute Stroke: The first 60 minutes. Department of Medicine Grand Rounds, *St Vincents Medical Center, Bridgeport, CT*
- 2006 Panelist. "Teamwork": Saving Brains, Saving Lives. 2006 Educational Gala, The Manhattan Chapter of the Emergency Nurses Association in Collaboration with the *Mount Sinai Emergency Medicine Department. October 3, 2006.*
- 2006 Bug out! Stopping nosocomial infections in neuro-ICU. Critical Care Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2006 Management of acute stroke. Department of Medicine Grand Rounds, *New York Hospital-Queens Medical Center, New York, NY*
- 2006 Management of acute Stroke. Department of Medicine Grand Rounds, *Christiana Medical Center, Newark, DE*
- 2006 Inside the black box: neuromonitoring in neurocritical care. Neurology Housestaff Conference, *Thomas Jefferson Medical Center, Philadelphia, PA*
- 2006 Vasoactive therapy in neurocritical care. Pulmonary/Critical Care Grand Rounds, *Hahnemann Medical Center, Drexel School of Medicine, Philadelphia, PA*
- 2006 Management of increased intracranial pressure. Pulmonary/Critical Care Grand Rounds, *North Shore University Hospital, Manhasset, NY*
- 2007 Hypothermia for cardiac arrest. Emergency Medicine Grand Rounds, *New York Presbyterian Hospital, New York, NY*
- 2007 Therapeutic hypothermia: dawn of the ice age. Department of Medicine Grand Rounds, *Weiler Division of the Albert Einstein College of Medicine, Bronx, NY*

- 2007 Therapeutic hypothermia: dawn of the ice age. Department of Medicine Grand Rounds, *Moses Division of the Albert Einstein College of Medicine, Montefiore Hospital, Bronx, NY*
- 2007 Management of brain hemorrhages. In: *2<sup>nd</sup> Annual Treatment and Prevention of Stroke in African Americans and Hispanic Populations: Closing the Gap in Stroke Disparities. Jointly Sponsored by Harlem Hospital Center, National Stroke Association, and Columbia University College of Physicians and Surgeons*
- 2007 Contemporary management of ICH. In: Brooklyn Stroke Symposium. *New York Chapter of the American Heart Association and Methodist Hospital, Brooklyn, NY*
- 2007 Inside the black box. Illuminating the comatose brain. Neuroscience Grand Rounds, *Yale University School of Medicine, New Haven, CT*
- 2007 Management of intracerebral hemorrhage. Medicine Grand Rounds, *Richmond University Medical Center, Staten Island, NY*
- 2007 Emergency management of acute stroke. In: Update in the Comprehensive Care of Stroke. *St Joseph's Medical Center, Paterson, NY*
- 2007 Factor VIIa for ICH: The FAST Trial. Neurology Grand Rounds, *Columbia University Medical Center, New York, NY.*
- 2007 Optimization of blood pressure in neurological emergencies. *Medicine Grand Rounds, New York Downtown Hospital, New York, NY*
- 2007 The FAST Trial. Neuroresuscitation Journal Club. *Department of Emergency Medicine, Mt Sinai School of Medicine, New York, NY*
- 2007 Hypothermia for cerebral preservation after cardiac arrest: the new paradigm. *Critical Care Grand Rounds, Columbia University Medical Center, New York, NY*
- 2007 Hypothermia for cerebral preservation after cardiac arrest. *3<sup>rd</sup> Annual New York Presbyterian Columbia Nurses Luncheon, Columbia University Medical Center, New York, NY*
- 2007 Hypothermia for cerebral preservation after cardiac arrest: the new paradigm. Pulmonary/Critical Care Medicine Noon Conference, *Weill Cornell Medical Center, New York, NY*
- 2007 Neurocritical Care Update. Neurosurgery Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2007 Intracerebral hemorrhage. Neurovascular Grand Rounds, *Hackensack University Medical Center, Hackensack, NJ*
- 2007 Neurocritical care. Keynote Lecture, *Rocky Mountain Stroke Summit, Swedish Hospital and the Colorado Neurological Institute, Denver, CO*
- 2007 Hypothermia for cardiac arrest: The Evidence Base. *Project Hypothermia, Greater New York Hospital Association, New York, NY*
- 2007 Hypothermia protocols. *Project Hypothermia, Greater New York Hospital Association, New York, NY*
- 2007 Fluid management in the neuro-ICU. Department of Neurology Grand Rounds, *New York Medical College, Valhalla, NY*

- 2007 Optimization of blood pressure in neurological emergencies. Department of Medicine Grand Rounds, *St Barnabas Medical Center, Bronx, NY*
- 2008 Myasthenic crisis. Medical Grand Rounds, *Community Medical Center, Toms River, NY*
- 2008 Update in neurocritical care. Department of Medicine Noon Conference, *St Francis Hospital, Lynwood, CA.*
- 2008 Hypothermia in neurocritical care. Neurology Grand Rounds, *Hoag Hospital, Los Angeles, CA.*
- 2008 Hyponatremia in neurological patients: who, how, why? Endocrinology Weekly Conference, *Columbia University Medical Center, New York, NY*
- 2008 Subarachnoid hemorrhage: new insights. Neurocritical Care Noon Conference, *Johns Hopkins School of Medicine, Baltimore, MD*
- 2008 Fluid resuscitation in neurocritical care. Trauma Conference, *Maryland Shock Trauma Center, Baltimore, MD*
- 2008 Emergency and critical care management of intracerebral hemorrhage. Neutology Grand Rounds, *St Lukes Roosevelt Hospital, Roosevelt Division, New York, NY*
- 2008 Optimization of blood pressure in neurological emergencies. Neurovascular Conference, *McKay Dee Hospital, Layton, UT*
- 2008 Inside the black box. Illuminating the comatose brain. Neuroscience Grand Rounds, *Intermountain Medical Center, Salt Lake City, UT*
- 2008 Hypothermia for cardiac arrest: the evidence base. Emergency Medicine Grand Rounds, *St Barnabas Medical Center, Bronx, NY*
- 2008 Hypothermia for cardiac arrest: the evidence base. Emergency Medicine Grand Rounds, *New York Downtown Hospital, New York, NY*
- 2008 Hypothermia for cardiac arrest: the evidence base. Emergency Medicine Grand Rounds, *Lincoln Hospital, Bronx, NY*
- 2008 New concepts in the management of subarachnoid hemorrhage. Neurology Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2008 Hypothermia for cardiac arrest: the evidence base. Internal Medicine Grand Rounds, *Metropolitan Hospital, New York, NY*
- 2008 Evidence-based management of severe TBI: The 2006 BTF Guidelines. Surgical Grand Rounds, *Winthrop University Hospital, Mineola, NY*
- 2008 Medical management of SAH. The 2<sup>nd</sup> Annual Lawrence M. Brass Stroke Symposium: hemorrhagic Stroke. *Yale University School of Medicine, New Haven, CT*
- 2008 Cooling technologies: an overview. In: Project Hypothermia: How to Cool Lunch and Learn. *The Greater New York Hospital Association, New York, NY.*
- 2008 Optimization of blood pressure in neurological emergencies. Critical Care Grand Rounds, *Shands Medical Center, Gainesville, FL*

- 2008 Multimodality monitoring. New York Presbyterian Nursing Education Day, *Columbia University Medical Center, New York, NY*
- 2008 Spontaneous intracerebral hemorrhage. In: Neurocritical Care: The 22<sup>nd</sup> Annual Kjeldgaard Day Symposium, *Maine Medical Center, Portland, Maine*
- 2008 ICU management of subarachnoid hemorrhage. In: Neurocritical Care: The 22<sup>nd</sup> Annual Kjeldgaard Day Symposium, *Maine Medical Center, Portland, Maine*
- 2008 Hypothermia for cardiac arrest: the evidence base. Internal Medicine Grand Rounds, *Lenox Hill Hospital, New York, NY*
- 2008 Optimizing blood pressure in neurological emergencies. The 5<sup>th</sup> Annual Artiss N. Powell Jr Memorial Lecture, *Departments of Medicine and Neurology, Robert Wood Johnson Medical School, New Brunswick, NJ*
- 2009 Hypothermia for cardiac arrest: the evidence base. Pulmonary/Critical Care Grand Rounds, *SUNY Stony Brook School of Medicine, Stony Brook, NY*
- 2009 Induced hypothermia. In: The 5<sup>th</sup> Annual Mt Sinai ED Critical Care Conference. Strengthening the Chain of Survival: Bleeding Edge Management of Cardiac Arrest. *Mt Sinai School of Medicine, New York, NY*
- 2009 Hypothermia for cardiac arrest: the evidence base. Pulmonary/Critical Care Grand Rounds, *Miller School of Medicine, University of Miami, Miami, FL*
- 2009 Hypothermia for cardiac arrest: the evidence base. Department of Medicine Grand Rounds, *St Francis Hospital, Roslyn, NY*
- 2009 Cardiocerebral resuscitation, Department of Neurology Grand Rounds, *Montefiore Medical Center, Bronx, NY*
- 2009 Emergency Treatments for Acute Stroke: Time Equals Brain. In: Protect and Maximize Your Brain. *New York Presbyterian Hospital. The Henry Morrison Flagler Museum, Palm Springs, FL*
- 2009 Inside the black box. Illuminating the comatose human brain. Department of Neurology Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2009 Emergency Treatments for Acute Stroke: Time Equals Brain. In: Brainstorms. The Columbia Presbyterian Health Sciences Advisory Council, *New York Presbyterian Hospital, New York, NY*
- 2009 Emergency Treatments for Acute Stroke: Time Equals Brain. In: Brainstorms. The Whitney-Harnkess Society, *New York Presbyterian Hospital, New York, NY*
- 2009 Neurocritical care from the neck down. Neurosurgery Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2009 Critical care management of intracerebral hemorrhage. Capital Health Stroke Grand Rounds, *Capital Health Medical Center, Trenton, NJ*
- 2009 New concepts in subarachnoid hemorrhage. Department of Neurology Grand Rounds, *Weill-Cornell Medical Center, New York, NY*
- 2009 Therapeutic hypothermia: who and how? *Therapeutic Temperature Management Master Summit, Mission Viejo, CA*

- 2009 Neurocritical care: Life support PLUS brain support. Neuroscience Grand Rounds, *Glendale Adventist Medical Center, Los Angeles, CA*
- 2009 Hypothermia for in-hospital cardiac arrest: pro. In: Critical Care Controversies. *Greater New York Hospital Association, New York, NY*
- 2009 Therapeutic hypothermia in the ICU. In: *3<sup>rd</sup> Annual Trauma and Critical Care Symposium, St Francis Hospital, The Franklin D. Roosevelt Presidential Library and Museum, Hyde Park, NY*
- 2009 Cardiocerebral Resuscitation. Cardiology Grand Rounds, *Jack D. Weiler Hospital of the Albert Einstein College of Medicine, Bronx, NY*
- 2009 Neuro-ICU versus medical ICU management: do neurointensivists matter? In: Treatment and Prevention of Stroke in African-American and Hispanic Populations. *Harlem Hospital Center, New York, NY*
- 2009 Neurocritical care: brain support. Neurology/Neurosurgery Grand rounds, *University of Medicine and Dentistry of New Jersey, Newark, NY*
- 2009 Optimizing blood pressure after acute brain injury. Cardiology Grand Rounds, *Robert Wood Johnson School of Medicine, New Brunswick, NJ*
- 2010 Optimizing blood pressure in acute stroke. 2010 Annual Meeting, *New Jersey Chapter of the American College of Physicians, Iselin, NJ*
- 2010 Cardiocerebral resuscitation. Heart Failure Grand Rounds, Division of Cardiology, *Columbia University Medical Center, NY, NY*
- 2010 Intracranial hemorrhage for the internist. In: Spring Update in Internal Medicine, *Richmond University Medical Center, Staten Island, NY*
- 2010 Management of ischemic brain edema.. In: Stroke care from Prevention to Intervention: Second Annual Baptist Hospital Stroke Symposium. *Baptist Hospital, Jacksonville, FL*
- 2010 Critical care of stroke. Keynote Speaker. In: 3rd Annual Meridian Stroke Symposium: A Multidisciplinary Approach to Stroke management. *Ocean Medical Center, Point Pleasant, NJ.*
- 2010 Families should be present in the ICU 24/7: Pro. In: 2<sup>nd</sup> Annual Symposium on Critical Care Controversies. *Greater New York Hospital Association, New York, NY*
- 2010 ICU management of catastrophic stroke. In: 4<sup>th</sup> Annual Treatment and Prevention of Stroke in Black and Hispanic Populations. *Harlem Hospital, New York, NY*
- 2010 Update in neurocriticalcare. Neurology Grand Rounds, *Beth Israel Medical Center, New York, NY.*
- 2011 ICP management: a stepwise protocol & Therapeutic temperature modulation. In: Neurocritical Care Symposium. *The Valley Hospital, Ridgewood, NJ*
- 2011 Neurological emergencies: meeting the challenge. Medical Grand Rounds. *Stamford Hospital, Stamford, CT*
- 2011 Cardio-cerebral resuscitation. Medical Grand Rounds, *Phelps Memorial Hospital, Tarrytown, NY*
- 2011 Inside the black box: illuminating the comatose human brain. Neurology Grand Rounds, *Mt Sinai School of Medicine, New York, NY*

- 2011 Neuroemergencies. Neurology Grand Rounds, *St Likes Roosevelt Medical Center, Roosevelt Hospital, New York, NY*
- 2011 Therapeutic Hypotheria: An Update. *Noran Neurological Clinic, Abbott Northwestern Hospital, St Paul, MN*
- 2011 Acute stroke: thrombolysis and beyond. Neurosurgery Grand rounds, *Columbia University Medical Center, New York, NY*
- 2011 Neurological emergencies. Neurology Grand Rounds, *Columbia University Medical Center, New York, NY*
- 2011 Hypothermia for Ischemic Stroke. In: Hypothermia and Resuscitation Training Institute at Penn, *University of Pennsylvania, Philadelphia, PA*
- 2011 ICU delirium can be preventted: Pro. In: 3<sup>rd</sup> Annual Symposium on Critical Care Controversies. *Greater New York Hospital Association, New York, NY*
- 2011 Critical care of stroke. North Shore/LIJ Neurology Grand Rounds, *North ShoreUnivcserity Hospital, Manhasset, NY*
- 2011 Update in neurcritical care. Critical Care Grand Rounds, *Beth Israel Medical Center, New York, NY.*
- 2012 Update in neurocritical care. In: Neurovascular Symposium, *Hollywood Presbyterian Medical Center, Los Angeles, CA*
- 2012 Intracerebral hemorrhage. In: NYP Brain Attack and cerebrovascular Disease Update 2012. New York Academy of Medicine, *New York Presbyterian Hospital, New York, NY*
- 2012 Inside the black box. Illuminating the comatose human brain. Department of Neurosurgey Grand Rounds, *University of Utah, Salt Lake City, UT*
- 2012 Critical care of acute stroke. In: 2012 Annual Meridian Health Neuroscience Symposoium, *Medirien Health Neuroscience, Eatontown, NJ, May 19, 2012,*
- 2012 The future of acute stroke management. Keynote Speaker. In: The George F. Heinrich MD Annual Symposium. Stroke 2012: The Future of Acute Stroke management. *New York Hospital Queens, Flushing, NY*
- 2012 The future of acute stroke management. *Medicine Gанд Rounds, Nassau University Medical Center, East Meadow, NY*
- 2012 Therapeutic hypothermia *and* Intracerebral hemorrhage. In: Thirty Second Annual Symposium on Pulmonary, Infectious Diseases, and Critical Care. *Mercy General Hospital, Sacramento, CA*
- 2012 The future of stroke therapy. Internal Medicine Grand Rounds, *Hackensack University Medical Center, Hackensack, NJ*
- 2012 Fever control: how and for whom? *and* Therapeutic hypothermia. In: Miami Neuro Symposium. *Baptist Health South Florida, Herbert Wertheim College of Medicine, Coral Gables, FL*
- 2013 Cardiocerebral resuscitation. Neurology Grand Rounds, *Columbia University Medical Center, NY, NY*
- 2013 Intracranial pressure management. In: 4<sup>th</sup> Annual Critical Care Medicine Symposium: Neurocritical Care. *North Shore-LIJ Health System, Manhassett, NY*

- 2013 Neurocritical update: optimizing emergency care. In: *8<sup>th</sup> Annual Nurses Symposium, New York Presbyterian Hospital, New York, NY*
- 2013 Cardiac arrest: The new frontier. Neurology Grand Rounds, *North Shore-LIJ Health System, Manhasset, NY*
- 2013 Panelist. In: Reversing Death: The Miracle of Modern Medicine. October 9<sup>th</sup>, 2013, *The New York Academy of Sciences*, New York, NY
- 2013 Refractory status epilepticus *and* subarachnoid hemorrhage: new approaches. In: Thirty Second Annual Symposium on Pulmonary, Infectious Diseases, and Critical Care. *Mercy General Hospital, Sacramento, CA*
- 2013 Update in neurocritical care. In: Neurosurgery Annual Clinical Day. *The American College of Surgeons Brooklyn and Long Island Chapter. Hempstead, NY*
- 2013 Beyond ICP: Brain multimodality monitoring. In: New York Neurosurgery: A Cushing Neuroscience Institute Symposium. *North Shore LIJ Health System, New York, NY*
- 2014 The future of acute stroke therapy. Medicine Grand Rounds. *Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY*
- 2014 Update in neurocritical care. In: Neurology Grand Rounds. *Rutgers New Jersey Medical School, Newark, NJ.*
- 2014 Frontiers in critical care. Department of Surgery Grand Rounds, *Icahn School of Medicine at Mount Sinai, New York, NY.*
- 2014 The future of acute stroke therapy. Department of Neurology Grand Rounds, *Mount Sinai Beth Israel Medical Center, New York, NY.*
- 2014 Neurological emergencies. Medicine Grand Rounds. *Lincoln Hospital, NY*
- 2014 Neurocritical care: the basics. Department of Neurosurgery Grand Rounds, *Icahn School of Medicine at Mount Sinai, New York, NY.*
- 2014 Frontiers in critical care. Department of Medicine Grand Rounds, *Icahn School of Medicine at Mount Sinai, New York, NY.*
- 2015 Update in neurocritical care. Department of neurology Grand Rounds, *SUNY Downstate Medical Center, Brooklyn, NY*
- 2015 Inside the black box. Illuminating the comatose human brain. Neurology Grand Rounds, *NYU Langone Medical Center, New York, NY*
- 2015 The future of critical care. Critical Care / Emergency Medicine Grand Rounds, *New York Hospital Queens, New York, NY*
- 2015 Coma. Rehabilitation Medicine Grand Rounds, *Rusk Institute, NYU Medical Center, New York, NY.*
- 2015 Subarachnoid hemorrhage: new advances. Neurology Grand Rounds, *Mount Sinai Medical Center, New York, NY*
- 2015 Inside the black box. Illuminating the comatose human brain. Neurology Grand Rounds, *Temple School of Medicine, Philadelphia, PA*

- 2016 Inside the black box. Illuminating the comatose human brain. Neurology Grand Rounds, *Mount Sinai Beth Israel Medical Center, New York, NY*
- 2016 Time zero prognostication. In: Resuscitate NYC 2017. *Mount Sinai Medical Center, New York, NY*
- 2016 Inside the black box. Illuminating the comatose human brain. Neurology Grand Rounds, *Weill Cornell Medical Center, New York, NY*
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- 2016 Stroke therapy: examining new evidence. In: Stroke Forum 2016, *The Ponte Vedra Inn, Jacksonville, FL*
- 2016 Inside the black box: illuminating the comatose human brain. In: 4th Annual Neurocritical Care Symposium, *The Valley Hospital, Ridgewood, NJ*
- 2016 ICH: The New Frontier and Illuminating the Comatose Brain. In: Thirty Sixth Annual Symposium on Pulmonary, Infectious Diseases, and Critical Care. *Dignity Health, California Northstate University School of Medicine, Sacramento, CA*
- 2016 Bleeding in the anticoagulated patient. In: Hospital Medicine Syposium: Mastering the Care of the Hospitalized Patient. *Mount Sinai Medical Center, New York, NY*
- 2017 Therapeutic temperature management: an update. Cerebrovascular Conference, Department of Neurology, *Boston University School of Medicine, Boston, MA*
- 2017 Fever control in the neuro-ICU. Cerebrovascular Conference, Department of Neurology, *Boston University School of Medicine, Boston, MA*
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## PENDING ABSTRACTS

Authors: M. Pain, W. Bartlett, S. Sobotka, J. Kim, J. Bederson, E. Gordon, N. Dangayach, S. Mayer, A. B. Costa

Title: Big data analysis of Neurosurgical Intensive Care Unit GCS scores reveals redundancy and suggests opportunities for improvement in NSICU GCS measurements

Authors: J. Kim, W. Bartlett, M. Pain, S. Sobotka, J. B. Bederson, E. Gordon, N. Dangayach, S. Mayer, A. B. Costa

Title: Analysis of GCS score monitoring reveals measurement inconsistency across various stages of NSICU workflow

Authors: W. Bartlett, M. Pain, J. Kim, S. Sobotka, J. Bederson, E. Gordon, N. Dangayach, S. Mayer, A. B. Costa

Title: Clustering of GCS time-series data reveals relationship between in-hospital deterioration and outcome

1. Authors: M. Pain, W. Bartlett, S. Sobotka, J. Kim, J. Bederson, E. Gordon, N. Dangayach, S. Mayer, A. B. Costa

Title: Big data analysis of Neurosurgical Intensive Care Unit GCS scores reveals redundancy and suggests opportunities for improvement in NSICU GCS measurements

Submitted: AANS

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Title: Analysis of GCS score monitoring reveals measurement inconsistency across various stages of NSICU workflow

Submitted: AANS

4. Authors: Rui Feng, Kelly Nicol, Margaret Pain, Joshua B. Bederson, Anthony Costa, Neha S. Dangayach

Title: Clinical Usage of Imaging Analysis Tools in Patients with Acute Stroke and Intra-axial Brain Tumors: A Systematic Review

Submitted: AANS

5. Authors: Julie Kim et al

Ventricular Catheter Tract Hemorrhage as a Risk Factor for Ventriculostomy Related Hemorrhage

Submitted: AAN and AANS

6. Authors: Rui Feng, Alexander G. Chartrain, Juhyun Kim, Stanislaw Sobotka, Margaret Pain, Neha S. Dangayach, Stephan A. Mayer, Joshua B. Bederson, Errol Gordon  
Title: External Ventricular Drain Related Infection Characteristics and Outcomes: A Case Series  
Submitted: AAN and AANS

7. Authors: Rui Feng, Kelly Nicol, Alexander G. Chartrain, Margaret Pain, Anthony Costa, James Sumowski, Joshua B. Bederson, Neha S. Dangayach  
Title: Validation of Automated Segmentation for Measuring Brain Reserve in Patients Undergoing Craniotomies: A Preliminary Analysis  
Submitted: AAN and AANS

8. Authors: Barbara Gordon et al  
Caring for the Whole Person: Resilience, Spirituality and Religious Coping in the Critical Care Environment  
Submitted: AAN, AANS

9. Authors: Neha Dangayach et al  
Title Resilience, Cognitive Reserve and Brain Reserve in Neurocritical Care: A prospective Cohort Study  
Submitted: AAN, AANS

11. Authors: Jonathan Rasouli et al  
Title: Post-operative pain control after craniotomy: A meta-narrative review  
Submitted: AAN, AANS

12. Authors: Stephen A Griffiths, Charles Francoeur, Errol Gordon, Neha Dangayach, Danielle Wheelwright, Anil Ramineni, Javaad Ahmad, Stephan A Mayer  
Title: Performance of the EMCOOLs Surface Cooling System For Acute Fever Control In Neurocritical Care Patients  
Submitted: AAN

13. Authors: Anil Ramineni, Neha Dangayach, Stephen Griffiths, Maggie Keough, Danielle Wheelwright, Vansh Sharma, Deborah Marin, Javaad Ahmed, Umesh Gidwani, Joshua Bederson, J Mocco, Errol Gordon, Stephan Mayer  
Title: "I believe in miracles": Implications for the Neuro-ICU  
Submitted: AAN

14. Charles Francoeur et al  
Title: Evaluation of a Novel Noninvasive Cerebral Perfusion Monitor (C-Flow) After Cardiac Arrest  
Submitted: AAN

Wei D, Oxley TJ, Nistal DA, Shoirah H, Chartrain A, Mascitelli JR, Wilson N, Liang J, Awad A, Kellner CP, De Leacy RA, **Mayer SA**, Tuhrim

S, Bederson JB, Mocco J, Fifi JT. High THRIVE score predicts mortality but not overall clinical improvement for neurointervention in ischemic stroke. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

Wei D, Oxley TJ, Nistal DA, Shoerah H, Mascitelli JR, Wilson N, Liang J, Awad A, Kellner CP, De Leacy RA, **Mayer SA**, Tuhrim S, Bederson JB, Mocco J, Fifi JT. Each minute in the puncture-to-recanalization interval has more weight on clinical outcome than onset-to-puncture. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

Wei D, Oxley TJ, Nistal DA, Mascitelli JR, Wilson N, Stein L, Liang J, Turkheimer L, Schwegel C, Awad A, Shoerah H, Kellner CP, De Leacy RA, **Mayer SA**, Tuhrim S, Bederson JB, Mocco J, Fifi JT. Comparison of Three Stroke Delivery Protocols: Efficacy of Mobile Neurointerventional Teams. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

Wei D, Oxley TJ, Nistal DA, Shoerah H, Mascitelli JR, Chartrain A, Wilson N, Liang J, Awad A, Kellner CP, De Leacy RA, **Mayer SA**, Tuhrim S, Bederson JB, Mocco J, Fifi JT. Distribution of access to endovascular stroke therapy in New York City. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

Wei D, Oxley TJ, Nistal DA, Shoerah H, Chartrain A, Mascitelli JR, Wilson N, Liang J, Awad A, Kellner CP, De Leacy RA, **Mayer SA**, Tuhrim S, Bederson JB, Mocco J, Fifi JT. Direct aspiration thrombectomy has superior procedure times and clinical outcomes compared to stentriever. AANS/CNS Joint CV Section Annual Meeting, Houston, TX, February 2017.

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# **Dr. Aaron McMurtry**

Revised June 5th, 2016

**Aaron McMurtry, M.D., Ph.D.****CONTACT INFORMATION:**

Mailing Address: Neurology Department  
 Harbor-UCLA Medical Center  
 1000 West Carson Street  
 Torrance, CA 90509

Phone: 310-222-3897

E-mail Address: amcmurtry@dhs.lacounty.gov

**EDUCATION:**

B.A. Chemistry and Biology, Claremont McKenna College	5/1996
M.D. Vanderbilt University School of Medicine	5/2000
Internal Medicine Internship, Ohio State University	7/1/2000-6/30/2001
Neurology Residency, Harbor-UCLA	7/1/2001-6/30/2004
Chief Resident in Neurology, Harbor-UCLA	7/1/2003-6/30/2004
Behavioral Neurology Fellowship, UCLA/West L.A. V.A.	7/1/2004-6/30/2006
Ph.D. Biomedical Sciences, University of Hawaii	5/2008

**LICENSURE:**

California Medical License, Number A78402	3/20/2002-present
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**BOARD CERTIFICATION:**

Diplomat, American Board of Psychiatry and Neurology	1/2006-present
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**PRESENT EMPLOYMENT:**

Physician Specialist and Medical Director for the Dementia/Neurobehavior Clinic Harbor-UCLA Medical Center, Torrance, CA	6/2012-present
Assistant Clinical Professor, Neurology Dept., UCLA, Los Angeles, CA	6/2012-present
Researcher, Los Angeles Biomedical Research Institute, Torrance, CA	9/2012-present

**PROFESSIONAL EXPERIENCE:**

Clinical Instructor in Neurology, University of California at Los Angles	7/2004-6/2006
Assistant Professor: Neurology Division, Department of Medicine, John A. Burns School of Medicine, University of Hawaii	7/2006-5/2009
Physician Specialist: Ventura County Medical Center, Ventura, CA	7/1/2009-6/14/2012
Director, Brain Injury Clinic, Ventura County Medical Center, Ventura, CA	3/1/2011-6/14/2012

**PROFESSIONAL ACTIVITIES:**

Member, Committee on Human Studies, University of Hawaii	2007-2009
Member, Recruitment and Selection Committee, Internal Medicine Residency Program, University of Hawaii	2007-2009
Member, Special Events Committee, JABSOM, University of Hawaii	2007-2009
Elected Alternate to the University of Hawaii Manoa Faculty Senate	5/2008-9/2010
Member, VCMC Medicine Committee	7/1/2009-6/30/2011
Member, Board of Directors, Brain Injury Center of Ventura County	1/1/2010-6/1/2012
Chief, VCMC Medicine Committee	7/1/2011-6/14/2012

Revised June 5th, 2016

Member, Human Subjects Committee, LA BioMed	1/2013-1/2015
Vice-Chair, Human Subjects Committee, LA BioMed	1/2015-3/2016
Chair, Research Committee, Neurology Department, Harbor-UCLA	1/2013-present
Director, Neurology Department Peer Review, Harbor-UCLA	7/2015-present
Member, Peer Review Oversight Committee, Harbor-UCLA	8/2015-present
Director, Quality Improvement Committee, Neurology Dept., Harbor-UCLA	7/2013-present
Member, Quality Council (formerly EPIC), Harbor-UCLA Medical Center	11/2012-present

**TEACHING:**

University of Hawaii:

Neurology Instructor, JABSOM, Medical Student PBL course. 2006-2009

Ventura County Medical Center, Neurology Department

Supervision and teaching of neurology residents on hospital wards and in general and subspecialty neurology clinics. 2009-2012

Harbor-UCLA Medical Center, Neurology Department

Supervision and teaching of neurology residents on hospital wards and in general and subspecialty neurology clinics. 2012-present

**LECTURES AND PRESENTATIONS:**

- 1) *Neuro-infectious Diseases.* Cedars Sinai Medical Center, Neurology Residency Program, Resident Lecture Series. Los Angeles, CA, June 3<sup>rd</sup>, 2016.
- 2) *Neurologic Complications of HIV Infection.* Cedars Sinai Medical Center, Neurology Residency Program, Resident Lecture Series. Los Angeles, CA, June 3<sup>rd</sup>, 2016.
- 3) *Development of Novel and Repurposed Therapeutics as Positive Allosteric Modulators of the Alpha-7-Nicotinic Acetylcholine Receptor.* West LA VA/UCLA, Neurobehavior Program Lecture Series. Los Angeles, CA, April 8th, 2016.
- 4) *Neurocognitive and Neuropsychiatric Disorders, Review for the RITE.* Harbor-UCLA Neurology Residency, Resident Rite Review Lecture Series. Torrance, CA, April 1<sup>st</sup>, 2016.
- 5) *Development of Novel and Repurposed Therapeutics as Alternatives to Monoclonal Antibody Treatments for Multiple Sclerosis.* Los Angeles BioMedical Research Institute, HIPO research lecture series. Torrance, CA, March 21st, 2016.
- 6) *Development of Structurally Novel Phenytoin Derivatives for Treatment of Refractory Epilepsy.* Los Angeles BioMedical Research Institute, HIPO research lecture series. Torrance, CA, December 11<sup>th</sup>, 2015.
- 7) *Dementia: Clinical Update and New Developments.* Harbor-UCLA Pathology Department Grand Rounds. Torrance, CA, November 6th, 2015.
- 8) *Dementia: Clinical Update and New Developments.* Harbor-UCLA Neurology Residency, Faculty Lecture series. Torrance, CA, September 25th, 2015.
- 9) *Neuro-infectious disease: Meningitis and Encephalitis.* Harbor-UCLA Neurology residency, Neurology Emergency lecture series. Torrance, CA, August 7th, 2015.
- 10) *Concussion Management.* Harbor-UCLA Neurology Department Grand Rounds. Torrance, CA, July 17<sup>th</sup>, 2015.
- 11) *Evaluation and Management of MCI and Dementia Syndromes in Athletes.* National Summit on Sports Concussion: Sports and Concussion Outcomes. Los Angeles, CA, June 5<sup>th</sup>, 2015.

Revised June 5th, 2016

- 12) *Sports Concussion Management*. Los Robles Hospital and Medical Center, Trauma Education Lecture Series. Thousand Oaks, CA, February 13<sup>th</sup>, 2015.
- 13) *Association of Brain Gray Matter Changes and Hallucinations in Parkinson's Disease*. West LA VA/UCLA Neurobehavior Fellowship Program, Neurobehavior Lecture Series. Los Angeles, CA, February 6<sup>th</sup>, 2015.
- 14) *Dementia: Update and New Developments*. Harbor-UCLA Neurology residency, Faculty Lecture series. Torrance, CA, August 22nd, 2014.
- 15) *Neuro-infectious disease: Meningitis and Encephalitis*. Harbor-UCLA Neurology residency, Neurology Emergency lecture series. Torrance, CA, August 15th, 2014.
- 16) *Association of reduced brain volume in the frontal opercular gyri with development of visual hallucinations in Parkinson's disease*. Los Angeles BioMedical Research Institute, HIPO research lecture series. Torrance, CA, July 23<sup>rd</sup>, 2014.
- 17) *Alzheimer's Disease: Treatment Update and Tau*. Neurosearch Community Lecture Series, Pasadena, CA, July 1<sup>st</sup>, 2014.
- 18) *Dementia, part 2*. Harbor-UCLA Neurology residency lecture series. Torrance, CA, April 18<sup>th</sup>, 2014.
- 19) *Alzheimer's Disease: a clinical update*. LA BioMed Lunch and Learn Community Lecture Series, Torrance, CA, March 27<sup>th</sup>, 2014.
- 20) *Memory Loss, Alzheimer's Disease and Other Dementias*. LA BioMed Lunch and Learn Community Lecture Series, Torrance, CA, January 30<sup>th</sup>, 2014.
- 21) *Dementia, part 1*. Harbor-UCLA Neurology residency lecture series. Torrance, CA, January 17<sup>th</sup>, 2014.
- 22) *Brain: an overview of memory loss, dementia, Alzheimer's disease, and Parkinson's disease*. Ventura County Senior Summit, Ventura County Board of Supervisors and Ventura County Healthcare Agency. Camarillo, CA, November 2<sup>nd</sup>, 2013.
- 23) *The Sensory System and its clinical examination*. Harbor-UCLA Neurology residency lecture series. Torrance, CA, October 4<sup>th</sup>, 2013.
- 24) *Neuro-infectious disease: Meningitis and Encephalitis*. Harbor-UCLA Neurology residency emergency case series. Torrance, CA, August 9<sup>th</sup>, 2013.
- 25) *Economic Benefits of Community Based Dementia Screening*. UCLA Alzheimer's Disease Research Forum, Los Angeles CA, February 25<sup>th</sup>, 2013.
- 26) *Economic Benefits of Community Based Dementia Screening*. Harbor-UCLA Grand Rounds, Torrance CA, February 22<sup>nd</sup>, 2013.
- 27) *Economic Benefits of Community Based Dementia Screening*. LA BioMed Research Meeting, Torrance CA, February 6<sup>th</sup>, 2013.
- 28) *Dementia: Case Presentation and Update*. Family Medicine Department Grand Rounds, Harbor-UCLA Medical Center, Torrance CA, January 2<sup>nd</sup>, 2013.
- 29) *Memory Loss – When is it Alzheimer's Disease*. Ventura County Senior Summit, Ventura County Board of Supervisors and Ventura County Healthcare Agency, Camarillo CA, April 21<sup>st</sup>, 2012.
- 30) *Chronic Pain*. Harbor-UCLA Grand Rounds, Torrance CA, March 30<sup>th</sup>, 2012.
- 31) *How to Partner with Caregivers*. Third Annual Ventura County Brain Injury Center Conference, Camarillo CA, March 24<sup>th</sup>, 2012.
- 32) *Assembling the Team: Case Studies*. Third Annual Ventura County Brain Injury Center Conference, Camarillo CA, March 24<sup>th</sup>, 2012.
- 33) *Dementia: From Tea to Nuts*. Neurologic Dilemmas for the Non-Neurologist, Ventura County Medical Center, Ventura CA, February 26<sup>th</sup>, 2011.
- 34) *Alzheimer's Disease: a Clinical Update*. Ventura County Medical Center, HSNC, Ventura CA, July 15<sup>th</sup>, 2010.
- 35) *Alzheimer's Disease and Parkinson's Disease Overview*. Camarillo Health Care District, Camarillo CA, July 15<sup>th</sup>, 2010.

Revised June 5th, 2016

- 36) *Dementia Overview*. Camarillo Health Care District, Camarillo CA, June 10th, 2010.
- 37) *Vascular Dementia: a Clinical Update*. Ventura County Medical Center, Department of Medicine Grand Rounds, Ventura CA, February 11, 2010.
- 38) *Depression in Elderly Japanese American Men: Findings from the Honolulu-Asia Aging Study*. Ahmed I, McMurtry A, Petrovitch H, Ross W, White L. *Orthostatic Hypotension Predicts Eight-Year Incident Depressive Symptoms*. McMurtry A. American Association for Geriatric Psychiatry (AAGP) Annual Meeting, Honolulu HI, 3/7/2009.
- 39) *Behavioral Neurology Overview*. The Department of Geriatric Psychiatry Grand Rounds, Honolulu HI, 2/6/2008.
- 40) *Vascular Dementia*. Department of Geriatrics Grand Rounds. John A. Burns School of Medicine, University of Hawaii, Honolulu HI, 10/23/2008.
- 41) *Alzheimer's Disease: Current concepts and future directions*. Department of Medicine Grand Rounds. John A. Burns School of Medicine, University of Hawaii, Honolulu HI, 11/2007.
- 42) *Small Vessel Vascular Disease in HIV infection: An update from the Honolulu Aging with HIV Cohort Study*. University of Southern California, Keck School of Medicine, Department of Neurology Grand Rounds, Los Angeles CA, 10/2/2007.
- 43) *Diagnosing Dementia in Younger People: Clinical and Neuropsychiatric Differences*. The 9<sup>th</sup> Argentinian Congress of Neuropsychiatry, Buenos Aires Argentina, 9/2007.
- 44) *Cortical Localization of Presenting Neuropsychiatric Symptoms in Frontotemporal Dementia*. The 9<sup>th</sup> Argentinian Congress of Neuropsychiatry, Buenos Aires Argentina, 9/2007.
- 45) *Ask the Specialist: Dementia and Alzheimer's Disease*, KHON/FOX Morning News, Honolulu HI, 7/16/2007.
- 46) *Understanding Vascular Cognitive Impairment and Vascular Dementia*. The Queen's Medical Center, General Medicine Grand Rounds, Honolulu HI, 7/6/2007.
- 47) *Traumatic Brain Injury: Long Term Cognitive Outcomes*. Harbor-UCLA Neurology Grand Rounds, Torrance CA, 10/13/2006.

## RESEARCH PAPERS

### RESEARCH PAPERS (PEER REVIEWED)

#### A. RESEARCH PAPERS – PEER REVIEWED

1. Mendez MF, **McMurtry AM**, Chen AK, Shapira JS, Chow TW, Mishkin F, Miller BL. Functional Neuroimaging and Presenting Psychiatric Features in Frontotemporal Dementia. *Journal of Neurology, Neurosurgery, and Psychiatry*, 2006;77:4-7. PMID: **16043457**
2. **McMurtry AM**, Clark DG, Christine D, Mendez MF. Early Onset Dementia: Frequencies and Causes Compared to Late Onset Dementia. *Dementia and Geriatric Cognitive Disorders*, 2006;21:59-64. PMID: **16276111**
3. **McMurtry AM**, Chen AK, Shapira JS, Chow TW, Mishkin F, Miller BL, Mendez MF. Variations in Regional SPECT Hypoperfusion and Clinical Features in Frontotemporal Dementia. *Neurology*, 2006;66:517-22. PMID: **16505304**
4. **McMurtry AM**, Ringman J, Chao S, Licht E, Saul RE, Mendez MF. Family History of Dementia in Early Onset vs. Very Late Onset Alzheimer's Disease. *International Journal of Geriatric Psychiatry*, 2006;21:597-598. PMID: **16783800**
5. Pascual BF, McCall CL, **McMurtry A**, Payton T, Smith F, Bisgard KM. Outbreak of Pertussis Among Healthcare Workers in a Hospital Surgical Unit. *Infect Control Hosp Epidemiology*, 2006;27:546-52. PMID: **16755472**
6. Mendez MF, **McMurtry A**. Frontotemporal Dementia-Like Phenotypes Associated with Presenilin-1 Mutations. *American Journal of Alzheimer's Disease and Other Dementias*, 2006;21:281-6. PMID: **16948293**

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7. **McMurtray AM**, Clark DG, Flood MK, Perlman S, Mendez MF. Depressive and Memory Symptoms as Presenting Features of Spinocerebellar Ataxia. *Journal of Neuropsychiatry and Clinical Neurosciences*, 2006;18:420-422. **PMID: 16963595**
8. Mendez MF, **McMurtray A**, Licht E, Shapira JS, Saul RE, Miller BL. The scale for emotional blunting in patients with frontotemporal dementia. *Neurocase*, 2006;12:242-6. **PMID: 17000595**
9. Mendez MF, Shapira JS, **McMurtray A**, Licht E. Preliminary findings: Behavioral Worsening on Donepezil in Patients with Frontotemporal Dementia. *Am J Geriatr Psychiatry*, 2007;15:84-7. **PMID: 17194818**
10. Mendez MF, Shapira JS, **McMurtray A**, Licht E, Miller BL. Accuracy of the clinical evaluation for frontotemporal dementia. *Arch Neurol*, 2007;64:830-5. **PMID: 17562930**
11. Licht E, **McMurtray AM**, Saul R, Mendez MF. Cognitive Differences between Early and Late Onset Alzheimer's Disease. *American Journal of Alzheimer's Disease and Other Dementias*, 2007;22:218-222. **PMID: 17606531**
12. **McMurtray AM**, Nakamoto B, Shikuma C, Valcour V. Small Vessel Vascular Disease in HIV Infection: The Hawaii Aging with HIV Cohort Study. *Cerebrovascular Diseases*, 2007;24:236-241. **PMID: 17630484**
13. **McMurtray AM**, Liao A, Haider J, Licht E, Mendez MF. Cognitive Performance after Lacunar Stroke Correlates with Leukoaraiosis Severity. *Cerebrovascular Diseases*, 2007;24:271-276. **PMID: 17646691**
14. **McMurtray AM**, Licht E, Yeo T, Kristal E, Saul RE, Mendez MF. Positron Emission Tomography Facilitates the Diagnosis of Early-Onset Alzheimer's Disease. *European Neurology*, 2007;59:31-37. **PMID: 17917455**
15. **McMurtray AM**, Sultzer DL, Monserratt L, Yeo T, Mendez MF. Content Specific Delusions from Right Caudate Lacunar Stroke: Association with Prefrontal Hypometabolism. *Journal of Neuropsychiatry and Clinical Neurosciences*, 2008;20:1:62-67. **PMID: 18305285**
16. **McMurtray AM**, Nakamoto B, Shikuma C, Valcour V. Cortical Atrophy and White Matter Hyperintensities in HIV: The Hawaii Aging with HIV Cohort Study. *The Journal of Stroke and Cerebrovascular Diseases*, 2008;17:212-217. **PMID: 18589342**
17. Saito E, Licht E, **McMurtray AM**, Mendez MF. Age of Onset Related Differences in Clinical and Neuropsychological Features of Alzheimer's Disease. *Alzheimer's Disease Research Journal*, 2008;4(1):279-288.
18. Valcour V, Watters MR, Williams AE, Sacktor N, **McMurtray A**, Shikuma C. Aging Exacerbates Extrapyramidal Motor Signs in the Era of HAART. *J Neurovirology*, 2008;14(5):362-7. **PMID: 18989814**
19. Mendez MF, **McMurtray AM**, Licht E, Saul RE. Frontal-Executive versus Posterior-Perceptual Mental Status Deficits in Early-Onset Dementias. *Am J Alzheimers Dis Other Demen*, 2009;24(3):220-227. **PMID: 19329784**
20. **McMurtray AM**, Saito E, Nakamoto B. Language preference and development of dementia among bilingual individuals. *Hawaii Medical Journal*, 2009;68(9):223-226. **PMID: 19842364**
21. Ashla PM, **McMurtray AM**, Licht E, Mendez MF. Retrospective Posttraumatic Amnesia in Traumatic Brain Injury. *J Neuropsychiatry Clin Neurosci*, 2009;21(4):467-468. **PMID: 19996257**
22. Nakamoto BN, **McMurtray AM**, Davis J, Valcour V, Watters MR, Shiramizu B, Chow DC, Kalianpur K, Shikuma C. Incident neuropathy in HIV-infected patients on HAART. *AIDS Research and Human Retroviruses*, 2010;26(7):759-65. **PMID: 20624077**.
23. Nakamoto BK, Valcour VG, Kalianpur K, Liang CY, **McMurtray A**, Chow D, Kappenberg E, Shikuma CM. Impact of Cerebrovascular Disease on Cognitive Function in HIV-

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- Infected Patients. *J Acquir Immune Defic Syndr*, 2011; 57(3):e66-8. **PMID: 21860354.**
24. Nakamoto BK, Jahanshad N, **McMurtry A**, Kallianpur KJ, Chow DC, Valcour VG, Paul RH, Marotz L, Thompson PM, Shikuma CM. Cerebrovascular risk factors and brain microstructural abnormalities on diffusion tensor images in HIV-infected individuals. *J Neurovirol*, 2012;18(4) 303-12. **PMID: 22585287**
25. Saito E, Leonard A, Nakamoto B, **McMurtry A**. Effects of Obesity and Gender on Chronic Pain Severity in a Community Based Cohort. *Journal of Obesity and Weight Loss Therapy*, 2012;2:126. doi:10.4172/2165-7904. 1000126.
26. Tse GG, Masuda EM, **McMurtry AM**, Nakamoto B. Coiled internal carotid arteries associated with bilateral sequential strokes. *Case Reports in Vascular Medicine*, 2013, Article ID 929530, doi:10.1155/2013/929530. **PMID: 23762747**
27. Nakamoto B, Siu AM, Hashiba KA, Sinclair BT, Baker BJ, Gerber MS, **McMurtry AM**, Pearce NM, Pearce JW. Surfer's Myelopathy: a Radiological study of 23 cases. *AJNR*, 2013; 34:2393-2398, doi: 10.3174/ajnr.A3599. **PMID: 23828111**
28. Mehta BK, Mustafa G, **McMurtry A**, Masud MW, Gunukula SK, Kamal H, Kandel A, Beltagy A, Li P. Whole Brain CT Perfusion Deficits Using 320-Detector Row CT in TIA Patients are Associated with ABCD2 Score. *Int J Neurosci*, 2014 Jan;124(1):56-60.doi:10.3109/00207454.2013.821471. Epub 2013 Aug 12. **PMID: 23826759**
29. Tse GG, Kim B, **McMurtry AM**, Nakamoto B. Case of Levodopa Toxicity from Ingestion of *Mucuna gigantean*. *Hawaii J Med Public Health*, 2013;72(5):157-60. **PMID: 23795319**
30. **McMurtry A**, Saito E, Diaz N, Mehta B, Nakamoto B. Greater Frequency of Depression Associated with Chronic Primary Headaches than Chronic Post-Traumatic Headaches. *International Journal of Psychiatry in Medicine*, 2013;45(3):227-236. **PMID: 24066406.**
31. Tse GG, Santos-Ocampo AS, Chow DC, **McMurtry A**, Nakamoto B. Diffuse Leukoencephalopathy and Subacute Parkinsonism as an Early Manifestation of Systemic Lupus Erythematosus. *Case Rep Neurol Med* 2013;2013:367185. doi: 10.1155/2013/367185. **PMID:24369514**
32. Saito E, Nakamoto B, Mendez MF, Mehta B, **McMurtry A**. Cost Effective Community Based Dementia Screening: a Markov model simulation. *International Journal of Alzheimer's Disease*, 2014;2014:103138. doi: 10.1155/2014/103138. **PMID:24649392**
33. **McMurtry A**, Saito E. Does Primary Headache Type Influence Secondary Headache Symptoms? *Journal of Neuroscience in Rural Practice*, 2014;5(2):111-2. doi: 10.4103/0976-3147.131644. **PMID:24966543**
34. **McMurtry A**, Nakamoto B, Diaz N, Mehta B, Aboutalib S, Saito E. Midlife Cigarette Smoking and Neuropsychiatric Symptoms among Demented Outpatients. *Journal of Aging: Research and Clinical Practice*, 2014;3(3):163-166. <http://dx.doi.org/10.14283/jarcp.2014.28>
35. **McMurtry A**, Tseng B, Diaz N, Chung J, Mehta B, Saito E. Acute Psychosis Associated with Subcortical Stroke: Comparison between basal ganglia and mid-brain lesions. *Case Reports in Neurological Medicine*, 2014;2014:428425. Doi: 10.1155/2014/428425. **PMID:25309765.**
36. Leon A, Saito EK, Mehta B, **McMurtry AM**. Calcified parenchymal central nervous system cysticercosis and clinical outcomes in epilepsy. *Epilepsy Behav*, 2015;43:77-80. **PMID:25569744.**
37. Dalrymple K, Saito EK, Diaz N, Morrow J, Nakamoto B, **McMurtry AM**. Past Cigarette Smoking Is More Common among Those with Cholinergic than Non-cholinergic Dementias. *Neurol Res Int*, 2014;2014:423602. doi: 10.1155/2014/423602. Epub 2014 Dec 10. **PMID: 25574388**

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38. Abukhalil F, Mehta B, Saito E, Mehta S, **McMurtry A.** Gender and Ethnicity Based Differences in Clinical and Laboratory Features of Myasthenia Gravis. *Autoimmune Dis*, 2015;2015:197893. doi: 10.1155/2015/197893. PMID: 26175913.
39. Saito EK, Diaz N, Morrow J, Chung J, **McMurtry A.** Lower Frequency of co-Morbid Medical Disorders Related to Poor Impulse Control in Parkinson's than Alzheimer's Disease. *Curr Aging Sci*, 2016;9(1):57-60. PMID: 26412353
40. Mehta BK, Kamal H, **McMurtry A.** Shafie M, Li P. Effect of Heparin on Recanalization in Acute Stroke Patients with Intra-Arterial Thrombi. *Neurol Int*, 2015;7:5807. doi: 10.4081/ni.2015.5807. PMID: 26487926
41. Saito E, Nagpal M, Leon A, Mehta B, **McMurtry AM.** Topographical congruence of calcified parenchymal neurocysticercosis and other structural brain lesions with epileptiform activity. *Trop Parasitol*, 2016;6(1):51-5. doi: 10.4103/2229-5070.175093. PMID: 26998434

**CHAPTERS**

- 1) Mendez MF, **McMurtry A.** Delirium. In: *Neurology in Clinical Practice (NCP)*, Bradley WG (Ed). Philadelphia, PA: Elsevier.
- 2) Valcour V, **McMurtry A.** Interactions between Advanced Age and HIV Cognitive Impairment. In *HIV and the Brain: New challenges in the modern era*. Edited by: Sacktor N, Toshima K, Paul R, Valcour V. Totowa, New Jersey: Humana Press, Inc.
- 3) Mendez MF, **McMurtry AM.** Neurodegenerative Disorders. In: *Stress Consequences: Mental, Neuropsychological and socioeconomic*, Fink G (Ed). Oxford, UK: Elsevier Academic Press.

**REVIEWS**

- 1) **McMurtry AM**, Saito E, Perlman S. Neuropsychiatric and Cognitive Symptoms in Spinocerebellar Ataxia: Relationship to neuropathological differences. *Current Psychiatry Reviews*, 2008;4(3):157-161.

**ABSTRACTS**

- 1) Sadava D, **McMurtry A**, Heidel K. Markers for multi-drug resistance and its reversal in human small-cell lung cancer cells. *J Tumor Marker Oncol*, 1997;12:111.
- 2) Sadava D, Heidel K, **McMurtry A**, Scanlon K. Neuron Specific Enolase and Thymidine Kinase: Markers for multiple drug resistance and its reversal in Human Small Cell Lung Cancer cells. *J Tumor Marker Oncol*, 1998;13(4):49-52.
- 3) **McMurtry AM**, Chen AK, Shapira JS, Chow TW, Mishkin F, Miller BL, Mendez MF. Frontal vs Temporal Frontotemporal Dementia: Functional Imaging and Neurobehavioral Symptoms. *Presented at the American Neurological Association 130<sup>th</sup> annual meeting in 2005*.
- 4) **McMurtry AM**, Saul R, Mendez MF. Clinical Utility of Positron Emission Tomography in Evaluation of Presenile Patients with Cognitive Impairments. *Presented at the American Neurological Association 130<sup>th</sup> annual meeting in 2005*.
- 5) **McMurtry AM**, Clark DG, Christine D, Mendez MF. Early Onset Dementia: Frequencies and Causes Compared to Late Onset Dementia. *Presented at the American Neurological Association 130<sup>th</sup> annual meeting in 2005*.
- 6) **McMurtry AM**, Licht E, Saul RE, Mendez MF. Frontal Lobe Metabolism in Strategic Caudate Stroke. *Presented at the American Society of Neuroimaging annual meeting in 2006*.
- 7) **McMurtry AM**, Licht E, Saul RE, Mendez MF. Presence of Leukoariosis Affects Cognitive Performance after Lacunar Stroke. *Presented at the American Neuropsychiatric Association*

Revised June 5th, 2016

- annual meeting in 2006.
- 8) Licht EA, **McMurtry A**, Saul RE, Fujikawa DG. Epileptic Dementia: Cognitive Impairment Associated With Subclinical Epileptiform Discharges. *Presented at the American Neuropsychiatric Association annual meeting in 2006.*
  - 9) Mendez MF, **McMurtry AM**, Licht E, Saul RE. The Emotional Blunting Scale in Patients with Frontotemporal Dementia. *Presented at the American Academy of Neurology annual meeting in 2006.*
  - 10) Mendez MF, **McMurtry AM**, Licht E, Saul RE. The Social Dysfunction Scale in Patients with Frontotemporal Dementia. *Presented at the American Academy of Neurology annual meeting in 2006.*
  - 11) Licht E, **McMurtry AM**, Saul RE, Mendez MF. Early and Late Onset Alzheimer's Disease Differ in Presenting Clinical Characteristics. *Presented at the American Academy of Neurology annual meeting in 2006.*
  - 12) Mendez MF, **McMurtry AM**, Licht E, Saul RE. Patients with Possible Frontotemporal Dementia: Eventual Clinical Diagnoses after Longitudinal Follow-Up. *Presented at the American Academy of Neurology annual meeting in 2006.*
  - 13) Apostolova LG, Clark DG, Zoumalan C, Steiner CA, **McMurtry A**, Toga AW, Cummings JL, Mendez MF, Thompson PM. 3D mapping of gray matter atrophy in semantic dementia and frontal variant frontotemporal dementia. *Presented at the 10th International Conference on Alzheimer's Disease and Related Disorders in 2006.*
  - 14) **McMurtry AM**, Licht E, Saul RE, Mendez MF. Stroke in Early and Late Onset Alzheimer's Disease. *Presented at the UCLA Aging Research Conference in 2006.*
  - 15) **McMurtry AM**, Licht E, Saul RE, Mendez MF. Cortical Metabolism in Early Onset Alzheimer's Disease. *Presented at the UCLA Aging Research Conference in 2006.*
  - 16) **McMurtry AM**, Licht E, Saul RE, Mendez MF. Dementia Etiologies in the Very Elderly. *Presented at the UCLA Aging Research Conference in 2006.*
  - 17) **McMurtry AM**, Licht E, Saul RE, Mendez MF. Familial Aggregation in Early and Late Onset Alzheimer's Disease. *Presented at the UCLA Aging Research Conference in 2006.*
  - 18) **McMurtry AM**, Licht E, Saul RE, Mendez MF. Presence of Leukoariosis Affects Cognitive Performance after Lacunar Stroke. *Presented at the American Neurological Association 131<sup>th</sup> annual meeting in 2006.*
  - 19) **McMurtry AM**, Licht E, Saul RE, Mendez MF. Head Injury Severity Correlates with Cognitive Impairment in Recent but not Remote Traumatic Brain Injury. Platform presentation at the Brain Injury Conference of the Americas annual meeting in 2006.
  - 20) **McMurtry AM**, Licht E, Perlman S, Mendez MF. Cognitive performance correlates with score on the Scale for the Assessment and Rating of Ataxia in Spinocerebellar Ataxia 1,2,3 and 6. *Presented at the American Neuropsychiatric Association annual meeting in 2007.*
  - 21) **McMurtry AM**, Nakamoto B, Shikuma C, Valcour V. Age-related Small Vessel Vascular Disease in HIV Infection: The Hawaii Aging with HIV Cohort Study. *Presented at the Hawaii Biomedical Science Research Symposium in 2007.*
  - 22) **McMurtry A**, Nakamoto B, Shikuma C, Valcour V. Age related cortical atrophy in HIV infection. *Presented at the American Neuroimaging Society 31<sup>st</sup> annual meeting in January 2008.*
  - 23) **McMurtry A**, Chen D, Valcour V, Gershenson M, Shikuma C. Mitochondrial Oxidative Stress and Painful Peripheral Neuropathy in HIV Infection. *Presented at the American Academy of Neurology annual meeting in April 2008.*
  - 24) **McMurtry A**, Petrovitch H, Ross GW, Masaki K, Uyehara-Lock J, White L. A strategy for identification of dementia risk factors based on associations with specific neuropathologic lesions: the HAAS autopsy study. *Presented at the International Conference on Alzheimer's Disease (ICAD) in July 2008. Alzheimer's and Dementia, 2008;4:T694-T695.*

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- 25) White L, Petrovitch H, Ross GW, Uyehara-Lock J, Masaki K, **McMurtry A**, Yun SJ, Markesberry W. Aging-related primary brain atrophy: frequency, association with dementia, and risk factors in the Honolulu-Asia Aging Study. *Presented at the International Conference on Alzheimer's Disease (ICAD) in July 2008.*
- 26) **McMurtry AM**, Kallianpur K, Valcour V, Shikuma C. Frequency of Apolipoprotein E4 allele in the Hawaii Aging with HIV Cohort Study Participants. *Presented at the Research Centers in Minority Institutions (RCMI) conference in December 2008.*
- 27) **McMurtry AM**, Valcour V, Shikuma C. Changes in Cerebral Glucose Metabolism Associated with the Presence of the Apolipoprotein E4 Allele in Older HIV Seropositive Individuals. *Presented at the Research Centers in Minority Institutions (RCMI) conference in December 2008.*
- 28) Kallianpur K, **McMurtry AM**, Valcour V, Shiramizu B, Shikuma C. Reduced Region-Specific Corpus Callosum Volumes Correlate with Low Nadir CD4 and Decreased Cognition in HIV-Infected Carriers of the ApoE4 Allele. *Presented at the Conference on Retroviruses and Opportunistic Infections (CROI) in February 2009.*
- 29) **McMurtry AM**. Age and Insulin Resistance are Associated with Periventricular White Matter Hyperintensities in older HIV Seropositive Individuals. *Presented at the American Neuroimaging Society annual meeting in January 2010.*
- 30) **McMurtry AM**, Diaz N, Mehta B. Utility of  $^{99m}\text{Tc}$  HMPAO SPECT in Dementia Diagnostic Dilemmas: A Case Series Report. *Presented at the American Neuroimaging Society annual meeting in January 2013.*
- 31) Diaz N, **McMurtry A**. Adverse Events with Implantable Deep Brain Stimulators – Trends and Insight from FDA Maude Database, 2001-2007. *Presented at the American Academy of Neurology annual meeting in March 2013.*
- 32) **McMurtry AM**, Saito E, Leon A, Rai K, Morrow J, Diaz N, Mehta B, Naylor D. Neuroimaging Detected Neuronal Cysticercosis and Neuropsychiatric Symptoms in Refractory Epilepsy. *Presented at the American Neuroimaging Society annual meeting in January 2014.*
- 33) Wang C, Mehta B, **McMurtry AM**. Occupational Exposure and Risk of Stroke: A Population-based Study in the United States Adult Population. *Presented at the International Stroke Conference in February 2014.*
- 34) Mowla A, Kamal H, Shirani P, Sawyer R Jr, Ching M, **McMurtry A**, Smith K, Li P, Farooq S, Singh K, AbdelRazek M, Mehla S, Crumlish AM, Mehta B. Clinical and Laboratory Factors predisposing to hemorrhagic conversion of ischemic stroke after thrombolysis. *Presented at the American Academy of Neurology 67<sup>th</sup> annual meeting in April 2015.*
- 35) Mowla A, Kamal H, Lail N, Cheema B, Mehta B, Memon A, Shirani P, Deline C, **McMurtry A**, Ching M, Sawyer R. Does the Presence of Pretreatment Hyperdense Middle Cerebral Artery Sign Predict the Outcomes of Intraarterial Thrombectomy Plus Intravenous tPA for Acute Stroke? Accepted for presentation at the American Academy of Neurology 68<sup>th</sup> annual meeting in April 2016.

## PATENTS

1. LAB0164 "Structurally novel Phenytoin derivatives with enhanced binding to neuronal voltage gated sodium channels" Provisional patent application No. 62/298,322, filed on 2/22/2016.

Revised June 5th, 2016

**CLINICAL TRIALS EXPERIENCE****Aids Clinical Trials Group (ACTG)****Investigator, Neurology Collaborative Science Group (Neuro CSG)**

2015-present

**Member, A5324 Leadership Team**

2012-present

1. **Title:** Integrase and Maraviroc Intensification in Neurocognitive Dysfunction (InMIND).  
**Protocol:** ACTG 5324.  
**Sponsor:** ACTG  
**Goal:** Assess if intensification improves neurocognitive function in subjects with neurocognitive impairment and undetectable HIV RNA on stable ART.

**Neurology Department, LA BioMed and Harbor-UCLA Medical Center****Co-Investigator, (PI: Metha, B)**

2016-present

1. **Title:** An Open-Label Study to Evaluate the Effectiveness and Safety of Ocrelizumab in Patients with Relapsing Remitting Multiple Sclerosis who have had a Suboptimal Response to an Adequate Course of Disease-Modifying Treatment.  
**Protocol:** MN30035.  
**Sponsor:** Genentech, Inc.  
**Goal:** The primary objective of this study is to assess the effectiveness of ocrelizumab 600 mg intravenously (IV) every 24 weeks over 96 weeks in patients with relapsing remitting multiple sclerosis (RRMS) who have had a suboptimal response to an adequate course of a disease-modifying treatment (DMT).

**Primary Investigator, Neurosearch-Torrance/Harbor-UCLA/LA BioMed, Torrance, CA 2013-2016**

1. **Title:** A Multicenter, Double-Blind, Randomized, Placebo-Controlled, Dose-Response Trial of YKP3089 as Adjunctive Therapy in Subjects with Partial Onset Seizures, with Optional Open-Label Extension.  
**Protocol:** YKP3089C017  
**Sponsor:** SK Life Sciences  
**Phase:** 3  
**Product:** YKP3089 (Small Molecule)

**Co-Investigator, Neurosearch-Torrance/Harbor-UCLA/LA BioMed, Torrance, CA 2013-2016**

1. **Title:** A multicenter, randomized, double-blind, parallel-group, placebo-controlled variable treatment duration study evaluating the efficacy and safety of Siponimod (BAF312) in patients with secondary progressive multiple sclerosis.  
**Protocol:** CBAF312A2304  
**Sponsor:** Novartis Pharmaceuticals  
**Phase:** 3  
**Product:** Siponimod (BAF312)
2. **Title:** A phase 3, 12-week, double blind, placebo-controlled, randomized, multicenter study to evaluate the efficacy of oral istradefylline 20 and 40 mg/day as treatment for subjects with moderate to severe Parkinson's disease.

Revised June 5th, 2016

**Protocol:** Kyowa 6002-014

**Sponsor:** Kyowa Hakko Kirin Pharma, Inc.

**Phase:** 3

**Product:** Istradefylline

**Co-Investigator, Neurosearch II Inc., Ventura, CA**

2011-2012

- 1) **Title:** An Open-Label, Multicenter, Multinational Study of Lacosamide as First Add-On Antiepileptic Drug (AED) Treatment in Subjects with Partial-Onset Seizures.  
**Protocol:** SP954  
**Sponsor:** UCB  
**Phase:** 4  
**Product:** Lacosamide
- 2) **Title:** A Randomized, Multicenter, Double-Blind, Placebo-Controlled, Parallel-Group, Phase 3 Study to Evaluate the Efficacy and Safety of USL255 as Adjunctive Therapy in Patients with Refractory Partial-Onset Seizures.  
**Protocol:** P09-004  
**Sponsor:** Upsher-Smith Laboratories, Inc.  
**Phase:** 3  
**Product:** USL255/Placebo
- 3) **Title:** Open-Label Extension Study to Evaluate the Safety of USL255 as Adjunctive Therapy in Patients with Refractory Partial-Onset Seizures who had participated in P09-004, a Randomized, Multicenter, Double-Blind, Placebo-Controlled, Parallel-Group, Phase 3 study.  
**Protocol:** P09-005  
**Sponsor:** Upsher-Smith Laboratories, Inc.  
**Phase:** 3  
**Product:** USL255
- 4) **Title:** Double-Blind, Randomized, Historical Control Study of the Safety and Efficacy of Eslicarbazepine Acetate Monotherapy in Subjects with Partial Epilepsy Not Well Controlled by Current Antiepileptic Drugs.  
**Protocol:** 093-046  
**Sponsor:** Sunovion Pharmaceuticals, Inc.  
**Phase:** 3  
**Product:** Eslicarbazepine Acetate
- 5) **Title:** Efficacy and safety of Eslicarbazepine Acetate (BIA 2-093) as adjunctive therapy for refractory partial seizures in a double-blind, randomized, placebo-controlled, parallel-group, multicentre clinical trial.  
**Protocol:** BIA-2093-304  
**Sponsor:** Sunovion Pharmaceuticals, Inc.  
**Phase:** 3  
**Product:** Eslicarbazepine Acetate

# **Dr. Rhonna Shatz**

**RHONNA SHATZ, D.O.**

**CURRICULUM VITAE**

**SPECIALTY CERTIFICATIONS**

Neurology  
Behavioral Neurology

**PROFESSIONAL INFORMATION:** - Present Positions

Sandy and Bob Heimann Chair in Research and Education of Alzheimer's Disease  
Director, Memory Disorders Clinic  
Department of Neurology and Rehabilitation  
University of Cincinnati  
260 Stetson St, Suite 2300  
Cincinnati, Ohio 45219-0525  
Associate Professor  
12-1-2014 to present

Behavioral Neurology Fellowship Director  
Department of Neurology and Rehabilitation  
University of Cincinnati  
260 Stetson St, Suite 2300  
Cincinnati, Ohio 45219-0525  
6-1-2015 to present

Director of Behavioral Neurology  
Clayton Alandt Chair of Behavioral Neurology  
Department of Neurology, K-11  
Henry Ford Hospital  
2799 West Grand Boulevard  
Detroit, MI 48202  
248-325-3089  
10-1-1987 to 8-31-2014

Behavioral Neurology Fellowship Director  
Henry Ford Hospital  
Department of Neurology, K-11  
2799 West Grand Boulevard  
Detroit, MI 48202  
2012 to 2014

Associate Professor Wayne State University  
School of Medicine  
Wayne State University  
Detroit, Michigan  
2003 to 2014

National Board of Osteopathic Medical Examiners  
Expert faculty—Neurology/Behavioral Neurology  
2008 to 2015

Joint Appointment  
Staff Investigator  
Henry Ford Health System  
Resource Center for Minority  
Aging Research  
1998

Adjunct Associate Professor  
University of Windsor  
Department of Psychology  
Windsor, Ontario, Canada  
1991 to 1994

**LICENSURE:** State of Ohio: 34.011582  
Original Date: November, 2014

State of Michigan: 008450  
Original Date: December 9, 1986

**DEA NUMBER:** BS0800234

**Board Certifications:** Neurology: 10/30/90 (number 33618)  
Behavioral Neurology 11/30/12 (number BNNP00506-12)

**EDUCATION:**

**Fellowship-**  
10-01-86 – 09-30-87 Behavioral Neurology, Henry Ford Hospital  
Department of Neurology, Division of Neuropsychology  
Detroit, Michigan 48202  
Gregory Brown, Ph.D.

joint with:

St. Joseph Hospital,  
268 Grosvenor St.  
London Ontario, Canada ON N6A 4V2  
Andrew Kertesz. M.D.

**Chief Resident:** Henry Ford Hospital, Department of Neurology  
Neurology K-11, 2799 W. Grand Boulevard, Detroit, MI 48202  
01/01/86 to 09-30-86 Chairman: Kenneth Welch, M.D.  
Director of Residency: Stanton Elias, M.D.

**Residency:** Henry Ford Hospital, Department of Neurology, K-11  
Neurology Chairman, Kenneth Welch, M.D.  
10/01/83 to 09/30/86 Director of Residency: Stanton Elias, M.D.

**Internship:** Botsford General Hospital  
**Flexible** 28050 Grand River  
Farmington Hills, Michigan 48336  
09/13/82 to 09/12/83 Director of Medical Education: J. Powell, D.O.

**Medical School:** Michigan State University  
06/15/78 to 09/03/82 College of Osteopathic Medicine  
East Lansing, Michigan 48823  
Dean: Myron Magen, D.O.

**Undergraduate College:** Audiology and Speech Pathology/Honors College  
09/73 to 06/78 Michigan State University  
East Lansing, Michigan 48823

**Languages Spoken:** English, Spanish

**Committees/Service:** University of Cincinnati/Maple Knoll Affiliation Board  
Technological Innovations in Healthcare Committee  
2015-present

Alzheimer's Disease and Associated Dementia Journal  
Manuscript review: 5/year average  
2016-present

Alzheimer's Association Greater Cincinnati Chapter  
Memory Walk Supporter 2015, 2016  
Caregiver Lecture Series presenter 2015-present

Tender Mercies  
Memory Disorders Clinic Group  
Provided dinner for about 70 residents  
November, 2015

Physician Effectiveness Committee of the Board of  
Governors  
Advisor for creating policy for cognitively compromised  
practitioners  
Henry Ford Hospital 2010 to 2011

Adat Shalom Physician's Journey Group, Co-Chair 2006-9  
Jewish and Ecumenical Medical Ethics Studies  
Monthly meeting and case reviews

Co-Chair Health Services Subcommittee  
State of Michigan Dementia Plan 2002-2004

Project Chesed  
(pro bono consultations for low income patients)  
Jewish Family Service of Michigan  
Participant  
2004 to 2010

National Board of Osteopathic Medical Examiners  
Exam writer 2003 to 2016  
Behavioral Neurology Specialist 2012 to 2016

Michigan Dementia Coalition  
Physician Leaders Network  
Advocacy Action Committee 2001 to 2014

Chairperson Board of Directors  
Alzheimer's Association  
Greater Michigan Chapter 2002-2003, (Detroit Chapter)  
2001-2002  
2000-2001

Member, Board of Directors  
Alzheimer's Association  
Greater Michigan Chapter 2002-2015

Member, Medical and Scientific Advisory Council  
Alzheimer's Association  
Greater Michigan Chapter 2002-2015

Strategic Realignment Committee for the National  
Alzheimer's Association  
Michigan Chapters  
2000-2001

Vice President of Alzheimer Association Board of  
Directors  
Detroit Chapter  
1999 –2000

Chairperson  
Medical and Scientific Advisory Council  
Alzheimer's Association-Detroit Chapter  
1996 - 2000

Vice President  
Medical and Scientific Advisory Council  
Alzheimer's Association-Detroit Chapter  
1994 to 1996

Chairperson Search Committee  
Audiology & Speech Pathology Chairman  
1990

**Research and Grants:**

<b>Axovant RVT-101-2001</b> Study in Dementia with Lewy Bodies	2017-2019
Sponsor: Axovant	
Imaging Dementia—Evidence for Amyloid Scanning (IDEAS)	2016-2018
Sponsor: Alzheimer's Association and the American College of Radiology	
Sponsor: Avid	2016-2018
A Clinico-Pathological Study of the Correspondence Between <sup>18</sup> F-AV-1451 PET Imaging and Post-Mortem Assessment of Tau Pathology	
Sponsor: Picker Foundation	2011-2012
Always Events Challenge Grant Project	
Dementia Screening for Senior Patients	
\$50,000 with matching funds from other donors	
Sponsor: Janssen and Janssen	2008-2014
A Phase 3 Extension, Multicenter, Double-Blind, Long Term Safety and Tolerability Treatment Trial of Bapineuzumab (AAB-001, ELN115727) in Subjects with Alzheimer's Disease Who Participated in Study ELN115727-301 or in Study ELN115727-302)	
A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Efficacy and Safety Trial of Bapineuzumab (AAB-001, ELN115727) in Patients with Mild to Moderate Alzheimer's Disease Who are Apolipoprotein E4 Carriers	
A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Efficacy and Safety Trial of Bapineuzumab (AAB-001, ELN115727) in Patients with Mild to Moderate Alzheimer's Disease Who are Apolipoprotein E4 Non-Carriers	
Sponsor: NIH	
Role: PI-Investigator      RO1 AG20688-01 (Fallin, Daniele)	2003-2008
NIH—Genetic Risk Factors for AD among African-Americans	
40% effort	
\$381,301	
Sponsor: Novartis	2001- 2002
A Prospective, Six-month Open-label Multi-center Study Evaluating the Safety and Tolerability of Exelon (rivastigmine tartrate) 3 to 12mg/day Administered Following a Slow Rate of Titration in Patients with Mild to Moderately Severe Alzheimer's disease	

Sponsor: Novartis	2003-2004
A Prospective, 26-Week, Open-label, Single-arm, Multi-center Study Evaluating the Efficacy and Safety of Exelon (rivastigmine tartrate) 3-12 mg/day in Patients with Mild to Moderate Alzheimer's Disease Who are Responding Poorly to Aricept (donepezil) Treatment	
Sponsor: Geriatric Education Center of Michigan Initiative to Improve Dementia Care in Michigan Supplemental Project Grant	2004-2005
5% effort	
Consortium Member	
\$5,000	
HAP-HRSA Managed Care Demonstration Study Administration on Aging CoPI	2000-2004
A Prospective, Six-month Open-label Multi-center Study Evaluating the Safety and Tolerability of Exelon (rivastigmine tartrate) 3 to 12mg/day Administered Following a Slow Rate of Titration in Patients with Mild to Moderately Severe Alzheimer's Disease Clinical Site Investigator	2001-2002
National Alzheimer's Association CD-ROM for Physicians on the Diagnosis and Treatment of Alzheimer's disease \$9000.00	2000
Clinical Evaluation of Alzheimer's disease Marilyn Nichol Fund \$10,000	1995-2000
Metrifonate Investigation Nationwide Trial (MINT) Clinical Site Investigator	1998
Grant # Ro1 AG 10677-01 National Institute on Aging Co-Investigator, Spectroscopy of Alzheimer's Disease with Vascular Dementia	1994-1998
Phase II Randomized Double Blind Placebo controlled Study of the Safety And Efficacy of 3 Doses of CP-118, 954 Administered for 12 weeks to Subjects with Alzheimer's disease. Clinical Site Investigator	1995-1996

Phase III Randomized Double-Blind  
Placebo Controlled Study of the Safety  
And Efficacy of Tacrine  
Administered to Subjects with Alzheimer's disease  
Tacrine Study Group  
Clinical Site Investigator

## **Publication, Presentations, and Abstracts:**

O'Reilly J and Shatz R. Dementia & Alzheimer's: Legal competence & Medico-legal consequences. American Bar Association Press (in press)

Molano JR, Bratt R, Shatz R. Treatment and Management of Dementia Due to Alzheimer's Disease. *Curr Treat Options Neurol*. 2015 Aug;17(8):363.

Shatz R, Novikova, M, Lemere W, Etters L. Paraneoplastic antibodies in dementia patients with presenting with executive dysfunction. Poster presented at the American Academy of Neurology Annual Meeting April 29,2014

Shatz R, Lemere W, Williams K, Daley S. NIH Toolbox Screen for MCI and Dementia: Results of a 90-Day Pilot in Primary Care Practices. Poster presented at the American Academy of Neurology Annual Meeting March 21, 2013.

Shatz, Rhonna. Dementia Seen by a Neurologist in *Broken Fragments: Jewish Experiences of Alzheimer's Disease through Diagnosis, Adaptation, and Moving On*. Kohn Douglas ed.\_URJ Press, 2012

Genetic Variants at Multiple Loci Influence Alzheimer Disease Risk in African Americans. Mark W. Logue, Ph.D.<sup>1,6</sup>, Matthew Schu, M.S.,<sup>1</sup>, Badri N. Vardarajan, M.S.<sup>1</sup>, JackiBuros, B.A.<sup>1</sup>, Robert C. Green, M.D., M.P.H.<sup>1,2,5</sup>, Rodney C. P. Go, Ph.D. Patrick Griffith, M.D.<sup>9</sup>, AbimbolaAkomoLafe, M.D., M.P.H.<sup>9</sup>, Thomas O. Obisesan, M.D.<sup>10</sup>, Rhonna Shatz, DO.<sup>11</sup>, Amy Borenstein, Ph.D.<sup>12</sup>, L. Adrienne Cupples, Ph.D.<sup>6</sup>, Kathryn L. Lunetta, Ph.D.<sup>6</sup>, M. Daniele Fallin, Ph.D.<sup>13</sup>, Clinton T. Baldwin, Ph.D.<sup>1,7</sup> and Lindsay A. Farrer, Ph.D.<sup>1-6,\*</sup> for the MIRAGE Study Group†  
Arch. Neurol. 2011 Dec;68(12):1569-79

Effects of Vagus nerve Stimulation on Progressive Myoclonic Epilepsy of Unverricht-Lundborg Type;  
Smith B, Shatz R, Elisevich K, Bespalova I, Burmeister M.  
Epilepsia 41(8): 1046-1048, 2000

Amusement Park Stroke; Neurology  
Burneo J, Shatz R, Papamitsakis N, Mitsias P.:  
Neurology 55:564, 2000

# Chapter: Behavioral Neurology In Medical Speech Pathology

Presentation: Cerebral Venous Thrombosis vs. Late Postpartum Eclampsia Associated with Decreased Protein S. Level;  
American College of Physicians  
September 19-22, 1996

A Controlled Trial of Tacrine in Alzheimer's disease  
M. Farlow, et al  
Tacrine Study Group  
JAMA, 11/11/92 – Vol 268

Published Abstract: Auditory Processing in Wernicke's Aphasia;  
Poster presented at International Neuropsychological Society  
Barcelona, Spain  
July 1987

<b>Awards:</b>	America's Most Honored Professionals 2016, 2017
	Castle Connolly Best Doctors 2015, 2016, 2017
	Cincy Best Doctors Award 2015, 2016, 2017
	Visionary Award Greater Michigan Chapter of the Alzheimer's Association November 1, 2014
	Maverick Award Greater Michigan Chapter of the Alzheimer's Association October, 2012
	Hour Detroit Monthly Magazine "Top Doc" Award for Alzheimer's Disease, Neurology October 2000- 2015
	Best Doctors in America 2005-2016
	Leadership Award Alzheimer's Association Detroit Chapter May 2, 2001
	Volunteer Award Alzheimer's Association Detroit Chapter May 2, 2001

Alois Alzheimer's Award  
Alzheimer's Association  
1999

Henry Ford Hospital Outstanding Physician Award  
1998

Henry Ford Hospital Medical Students and Residents  
Award for Excellence in Teaching  
1992, 1994, 1998, 2007, 2009

"Coveted Head's Award" for Teaching Excellence  
University of Windsor  
1991 - 1993

**Teaching:**

**Behavioral Neurology Residency Core Didactics**  
University of Maryland Residency Program  
March 6-10, 2017

**Mind and Behavior Course participant**  
**University of Cincinnati Medical School**  
Cognitive networks  
Dementia Evaluation  
Dementia Treatment  
2015, 2016, 2017

**Pediatric Neurology**  
Language and Progressive aphasias  
2016

**Physical Medicine and Rehabilitation**  
Dementia evaluation  
June 16, 2016

**Neurology Residents**  
Pharmacology of dementia  
June 9, 2016

**Coordinator of the Combined Cognitive-Movement Conference**  
University of Cincinnati, Dept. of Neurology and  
Rehabilitation  
2014-present

**Behavioral Neurology Course**  
Henry Ford Hospital  
Fall 1992 –1994, 1996-2014

**Dementia**

University of Detroit, Physician's Assistant Program  
1998

**Neuroanatomy – Henry Ford Hospital**

Fall 1993 –1995

**University of Windsor, Department of Neuropsychology,  
Neuroanatomy and Neurophysiology Course**

Fall 1990

Winter 1991

Fall 1992

Winter 1993

**Recent Invited Lectures:**

“Noing” Aphasia: Primary Progressive Aphasia  
Grand Rounds Invited Lecturer  
Baltimore, Maryland  
March 8, 2017

Cognitive Networks in Neurological Disease  
International Conference on Neurocritical Care  
Quito, Ecuador  
November 21, 2016

Update on Dementia: The Right Diagnosis  
International Conference on Neurocritical Care  
Quito, Ecuador  
November 22, 2016

A Dignified Diagnosis  
Alzheimer’s Symposium  
Greater Cincinnati Chapter of the Alzheimer’s Association  
Professional Symposium  
Sharonville, Ohio  
November 4, 2016

Sleep and Cognition in Cancer  
Barrett Cancer Center Annual Symposium  
University of Cincinnati  
Cincinnati, Ohio  
September 23, 2016

Interior Redesign: Brain Health in Parkinson’s Disease  
Sunflower Symposium  
University of Cincinnati  
August 9,2016

Cancer and Memory  
Barrett Cancer Center Annual Symposium  
University of Cincinnati

Cincinnati, Ohio  
September 11, 2015

Invited Lecture: Update on Alzheimer's Research  
Winter Conference on Brain Research  
Big Sky, Montana  
July 27<sup>th</sup>, 2015

The Art of Maintaining the Brain (And diagnosing when it is broken")  
Practical Pathways Through Dementia  
Greater Cincinnati Chapter of the Alzheimer's Association  
Professional Symposium  
November 7, 2014

Spectrum of Lewy body diseases: From Parkinson's to Dementia  
University of Cincinnati Movement Disorders Workshop  
Cincinnati, Ohio  
October 17, 2014

Keynote Lecture: Navigating the Cognitive Internet: What are networks and why they are important  
Spectrum Health Third Annual Neuroscience Symposium  
Spectrum Health System  
Grand Rapids, Michigan  
June 6, 2014

Grand Rounds: Alzheimer's at the End of Life  
Palliative Care  
Henry Ford Health System  
June 3, 2014

Grand Rounds: Networks and Why They are Important  
Michigan State University Dept. of Neurology  
East Lansing, Michigan  
May 28, 2014

Profiling MCI  
Michigan State Medical Society Spring Meeting  
The Henry, Detroit, Michigan  
May 15, 2014

Speaking in tongues: Primary Progressive Aphasia  
Michigan State Medical Society Fall Meeting  
Somerset Inn, Troy, Michigan  
October 24, 2013

Dementia Screening for the Medical Home

National Medical Home Summit and Population Health  
Colloquium  
March 14, 2013

Screening for Dementia in Primary Care Pilot Always Event  
Institute for Healthcare Innovation  
Orlando, Florida  
December 10-12, 2012

NIH Toolbox for Diagnosing Dementia  
NIH Toolbox Conference  
NIH, Bethesda, Maryland  
September 10, 2012

Update on Lewy Body Dementia  
Issues in Aging Conference  
Wayne State University/Dearborn Inn  
Monday, May 14, 2012

Normal Pressure Hydrocephalus: A Syndrome  
Henry Ford Hospital Neurology/Neurosurgery Grand Rounds  
Henry Ford Hospital, Detroit  
November 16, 2011

Lost in Oz: How to detect “Ozheimer’s”  
Primary Care Update  
Henry Ford Hospital West Bloomfield  
November 12, 2011

Best Practices in Dementia Treatment  
Fairy Tales and Endings:  
End of Life Issues in Parkinson’s Disease  
Michigan Parkinson Initiative Symposium 2011  
Lansing Center, Lansing Michigan  
September 16, 2011

At a Loss for Words  
Primary Progressive Aphasias  
Kopp Lecture Invited Lecturer  
Wayne State University, Dept. of Speech Pathology  
April 11, 2011

Senior Expo  
Knowing: The Warning Signs of Alzheimer’s Disease  
Sterling Heights, Michigan  
October 31, 2010

Update on Alzheimer’s Disease  
Internal Medicine Grand Rounds

Beaumont Hospital  
Royal Oak, Michigan  
October 30, 2010

Stories of Dementia  
World Alzheimer's Day Invited Lecturer  
Southfield, Michigan  
September 19, 2010

Memory Loss and Brain Tumors  
Henry Ford Hospital  
West Bloomfield, Michigan  
September 13, 2010

Alzheimer's Update  
Michigan Neurological Association  
Boyne Mountain, Michigan  
August 14, 2010

Winkleman Invited Lecturer  
Many Faces of Frontal Temporal Dementia  
University of Michigan  
School of Social Work  
Ann Arbor, Michigan  
April, 2010

Normal Pressure Hydrocephalus: Not Just Big Ventricles  
Neurology Grand Rounds  
Henry Ford Health Systems  
March 3, 2010

Creating Brain: Myth, Memory, and Amnesia  
Prime Time! Life After 50 Expo  
Jewish Vocational Service/ Jewish Federation  
Jewish Community Center West Bloomfield  
April 19, 2009

Not Your Grandmother's Dementia  
Sisters, Servants of the Immaculate Heart of Mary  
Monroe, Michigan  
February 28, 2009

Neuropsychiatric Symptoms in Parkinson's Disease:  
Depression, Psychosis, and Dementia  
Promoting Optimal Health in Person with Parkinson's  
Disease  
University of Michigan Medical School  
The Inn at St. John's, Plymouth, Michigan  
September 12, 2008

Wisdom and Memories  
Community Mental Health Forum  
Waterford Senior Center  
August 12<sup>th</sup>, 2008

Minding the brain (Headminders Project)  
Clinical Medicine Chapter 12: Practical Problems in Adult  
Care  
Adult Primary Care Conference  
Troy, Michigan  
May 2, 2008

Transitions in the Management of Parkinson's Disease  
Lewy Body Dementia  
Michigan Parkinson's Initiative Symposium  
St. John Inn and Conference Center  
Plymouth, Michigan  
September 15, 2006

Women's Neurology Update  
Westin Hotel, Southfield, Michigan  
September, 2006

Hot Topics in Women's Health:  
Depression, Memory, and Aging  
Henry Ford Health Systems  
Tuesday, November 15, 2005

Update in dementia  
Michigan Osteopathic Association Annual Postgraduate  
Convention and Scientific Seminar  
May 20, 2005

Genetic and Clinical Markers for Dementia  
Southern Michigan Cytogenetics Conference  
Henry Ford Health Systems  
May 13, 2005

"Constellations: New Ideas in Dementia"  
Internal Medicine Annual Update 2004  
Henry Ford Health Systems  
Southfield, Michigan  
October 29, 2004

"Quality Matters: Best Practices in Dementia Care"  
Live Interactive Videoconference via Satellite and the Web  
Michigan State University College of Human Medicine

Thursday, June 10, 2004

“Mild Cognitive Impairment”  
Neurology for the Primary Care Provider  
Henry Ford Health Systems  
Wednesday, May 12, 2004

“Cognition and Brain Function”  
Opening reception for Detroit Science Center Exhibit  
“Brain—The World Inside Your Head”  
Detroit Science Center  
Wednesday, November 5, 2003

“Masks and Mosaics—Genetics of Dementias”  
Neurologic Diseases in the Elderly and Their Treatment  
Henry Ford Health Systems  
October 31, 2003  
Program coordinator

“Hope in Pandora’s Box—An Innovative Approach to  
Dementia”  
Michigan Dementia Coalition and Marquette General Hospital  
Marquette, Michigan  
Friday, September 19, 2003

“Caught in the Middle—MCI”  
Western Michigan Osteopathic Association Fall Conference  
Mackinac Island, Michigan  
September 12, 2004

“An Alzheimer’s Primer”  
Three part lecture for lay public, direct care providers, and  
physicians  
Alzheimer’s Association Greater Michigan Chapter  
Gaylord, Michigan  
May 1 and 2, 2003

“Alzheimer’s Disease: The Continuum of Treatments”  
Opening Plenary Session—Issues in Aging  
Institute of Gerontology  
Wayne State University  
May 12, 2004

“Conquering the Complexity: ICD-9 Coding for Epilepsy and  
Dementia”  
American Academy of Neurology Annual Convention  
Honolulu, Hawaii  
April 3, 2003

“Early Alzheimer’s Dementia and Mild Cognitive Impairment”  
Annual Internal Medicine Update  
Fisher-Titus Medical Center  
Norwalk, Ohio  
March 18, 2003

“Alzheimer’s: Brain Security Strategies”  
Annual Geriatrics Symposium  
Michigan State University College of Human Medicine  
Grand Rapids, Michigan  
November 15, 2002

“Chasing Zebras: Differentiating Among the Non-Alzheimer’s Dementias”  
OHEP Center for Medical Education  
Alzheimer’s: The Disease of the Millennium: An Update for the Practitioner  
Dearborn, Michigan  
October 18, 2002

“Neuroprotection”  
Neurology for the Primary Care Provider  
Henry Ford Health Systems  
Dearborn, Michigan  
November 13, 2002

“Alzheimer’s: A Caring-Giver Perspective”  
Adat Shalom Synagogue  
The Why and How of Bikkur Cholim  
Farmington Hills, Michigan  
October 13, 2002

“Dementia: It’s Not Just for Neurologists”  
Family Practice Grand Rounds  
Saginaw Cooperative Hospitals  
Saginaw, Michigan  
September 11, 2002

“Management of Alzheimer’s and Other Dementias”  
Northeastern Michigan Osteopathic Association  
Annual Summer Conference  
Mackinac Island, Michigan  
June 23, 2002

“Mild Cognitive Impairment”  
Michigan Osteopathic Association Annual Postgraduate Convention and Scientific Seminar  
Dearborn, Michigan  
May 16, 2002

“New Faces of Dementia”  
Annual Internal Medicine Update  
Fisher-Titus Medical Center  
Norwalk, Ohio  
March 19, 2002

“Alzheimer’s: It’s Not Your Grandmother’s Dementia”  
Psychiatry Grand Rounds  
Detroit Veteran’s Administration  
Detroit, Michigan  
March 7, 2002

“Dementia: Nuts and Bolts”  
Michigan State University Family Medicine Educational Day  
East Lansing, Michigan  
February 6, 2002

“Update on Research”  
Mid-Michigan Chapter of the Alzheimer’s Association  
Annual Meeting  
Saginaw, Michigan  
November 6, 2001

“Alzheimer’s: It’s Not Your Grandmother’s Disease”  
American Osteopathic Association 106<sup>th</sup> Annual Convention  
San Diego, California  
October 23, 2001

“Translating Genetics into the Clinic – New Markers for  
Alzheimer’s disease”  
National Meeting Clinical Ligand Assay Society  
Dearborn, Michigan  
May 17, 2001

“All About Alzheimer’s Disease: A Community Workshop”  
Macomb-Oakland Regional Center for Mental Health  
Services  
Macomb, Michigan  
January 17, 2001

“Case Study Workshops for Geriatric Mental Health”  
State University of New York Upstate Medical University  
Detroit, Michigan  
December 7, 2000

“Markers in Alzheimer’s disease”  
Midwest Clinical Ligand Assay Society  
Troy, Michigan  
October 19, 2000

"Listening for Zebras: The Other Dementias"  
Norman N. Krieger, M.D. Lecture on Geriatric Medicine  
Wayne State University School of Medicine  
Birmingham, Michigan  
October 19, 2000

"An Unusual Case of Stroke"  
Professor in Action  
American College of Physicians  
American Society of Internal Medicine, Michigan Chapter  
Traverse City, Michigan  
September 22, 2000

"It Isn't Your Grandmother's Disease Anymore; The New Faces of Dementia"  
Central Nervous System Diseases Updates and Dilemmas  
Wayne State University  
Livonia, Michigan  
September 15, 2000

Overview of Alzheimer's disease  
Behavior and Alzheimer's disease  
Alzheimer Association Caregiver Workshop  
Riverside Osteopathic Hospital  
Trenton, Michigan  
July 11, 2000

"Houses of Bricks, Houses of Sticks: Memory and Aging"  
Beaumont Hospital Medical Grand Rounds  
Royal Oak, Michigan  
June 21, 2000

"Alzheimer's disease and People with Developmental Disabilities"  
Macomb-Oakland Regional Center for Mental Health Services  
Macomb, Michigan  
June 14, 2000

"New Alzheimer's Treatments"  
Henry Ford Village Alzheimer's Support Group  
Dearborn, Michigan  
June 13, 2000

"I'm Not Certain What This Is": Diagnosis and Treatment for Non-"Alzheimer's Dementias"  
Third Annual Dementia Education Conference  
Michigan Mental Health Association  
Petoskey, Michigan  
May 20, 2000

“Memory Loss and Dementia”  
Anti-Aging Medicine Conference  
Colorado Springs, Colorado  
April 13, 2000

“Alzheimer’s disease: Don’t Be Misinformed”  
Guest on Straight Talk  
Hosted by Amyre Makupson, WKBD/UPN 50 Television  
March 8, 2000

“Update on Alzheimer’s disease”  
Alzheimer’s Association, Detroit Chapter  
Southfield, Michigan  
February 4, 2000

“Recognizing Alzheimer’s disease”  
Heartland Healthcare Center  
Allen Park, Michigan  
January 20, 2000

“Dementia – A Clinical Consensus”  
Henry Ford Hospital  
October 8, 1999

“Multiple Sclerosis Related Cognitive Issues”  
National Multiple Sclerosis Michigan Chapter Seminar  
September 18, 1999

“Markers in Alzheimer’s Disease”  
American College of Osteopathic Neurologists and  
Psychiatrists Meeting  
Mackinac, Michigan  
July 16, 1999

“Overview of Alzheimer’s Disease”  
Alzheimer’s Association  
Caregiver Workshops  
July 7, 1999  
June 22, 1999  
July 21, 1999

“Update on Alzheimer’s Disease”  
Alzheimer’s Association

Detroit Chapter  
June 15, 1999

“Diagnosis and Treatment Options for Alzheimer’s Disease – A Primary Care Perspective”  
Oakwood Family Practice Meeting  
March 16, 1999

“Confusion, Dementia, and Delirium”  
Henry Ford Health System Clinical Case Management Program  
January 20, 1999

“Interdisciplinary Team Model with Dementia Patients and Caregivers”  
Henry Ford Health System Rehabilitation Conference  
January 23, 1999

*Bhonna Shatz, D.O.*